

# Beyond Our Oath:

*Integrity, Intensity,  
Professionalism*



**46<sup>th</sup> AASV  
Annual Meeting**

February 28 - March 3, 2015  
Orlando, Florida

# Message from the Program Chair, Dr Ron Brodersen



Welcome colleagues, we return again to the city of Orlando, for the 46<sup>th</sup> AASV Annual Meeting. This year is a good year to have our annual meeting in a warm climate. But if you think about it, every year is a good year to have our meeting in a warm climate! This is our third conference in the “Sunshine State” and

I hope you have time to enjoy the warmth and take a wild ride on Space Mountain or other local attractions with family or friends before you head back recharged and refreshed for the challenges ahead.

*“I challenge our association to improve our image as respected professionals on the health and welfare of the pig”*

In the media and society at large, there are groups that are confronting the role of the veterinarian as an authority on animal well being. They question our relevance! To respond, I challenge our association to improve our image as respected professionals on the health and

welfare of the pig. It’s important that we become visible as THE LEADING source of scientific knowledge, sound economics and proven animal husbandry regarding the rearing and care of pigs. To this end we have chosen to build on last year’s theme and “go beyond our oath” to practice what we preach! We want to instill in each of us the drive to “raise the bar” on what we do every day.

I asked Dr. Greg Stevenson, a long-time friend and esteemed diagnostician, to deliver the Howard Dunne Memorial Lecture. I have great respect for his insight of the privileged position that veterinarians hold in society. He will be sharing his wisdom and experience with respect to ethics and character. We follow with the Alex Hogg Memorial Lecture, where Dr. Scanlon Daniels, a respected practitioner, will discuss the future role of veterinarians in leadership positions and how they can become agents of influence.

Please check out our preconference seminars. We have chosen some really good topics. PED is still the hottest issue and now, almost two years since it was introduced into North America, we are still in the steep part of the learning curve. PED topics thread themselves through the pre-conference sessions and continue Monday morning and into the afternoon breakout sessions. Tuesday morning we focus on what might be done by our profession to prevent or control the “next” foreign animal disease.

*“We want to instill in each of us the drive to “raise the bar” on what we do every day.”*

I want to thank the program committee for putting together a top notch educational program. I know the presenters donated countless hours to our association sharing their knowledge, and I thank them for their generosity. The AASV staff is outstanding in their expertise and support. Thanks to all involved in the effort; it has been a privilege and honor to work with you.

We have just witnessed a couple of incredible years in the swine industry. A period that will be referenced for years to come—volatility in commodity prices and production output, wild swings in swine profitability, and the emergence of an unknown, highly contagious foreign disease. It’s a profession not for the faint of heart! Talk about a roller coaster ride – who needs Space Mountain?!

Ron Brodersen  
Program Chairman



# Program Committee

## Ron Brodersen, Chair

Matt Anderson	Chris Rademacher
Butch Baker	Alex Ramirez
Andrew Bents	Craig Rowles
Michael Brumm	Adam Schelkopf
George Charbonneau	Michelle Sprague
Mitch Christensen	Scott Stehlik
C. Scanlon Daniels	Jennifer Stevens
Monte Fuhrman	Matthew Turner
Jeff Harker	John Waddell
Megan Inskeep	Todd Williams
Karen Lehe	Nathan Winkelman
Michelle Michalak	

## New This Year...

### Mobile App

Keep track of when and where you need to be with the new, free mobile app! It's loaded with the most up-to-date schedule, speaker and exhibitor information, maps of the conference rooms, links to proceedings papers, and more! It will be available in February in iOS, Android, and HTML5 format for your phone, tablet, or laptop.

### Proceedings

There will be NO printed proceedings, but ALL of the proceedings papers (including seminar papers) will be available for members to download in a variety of formats prior to and during the conference.



For more information on these new features, see [www.aasv.org/annmtg](http://www.aasv.org/annmtg).

# Registration & Fees

## Registration

### Registration desk located in Great Hall (Convention Level)

Saturday, Feb 28	7:00 AM – 5:00 PM
Sunday, March 1	7:00 AM – 5:00 PM
Monday, March 2	7:00 AM – 5:00 PM
Tuesday, March 3	7:00 AM – 12:00 PM

## Fees

### Register online at [www.aasv.org/annmtg](http://www.aasv.org/annmtg)

AASV member pre-registration	\$345
AASV member registration after February 6	\$380
Non-member veterinarian registration	\$475
Add'l Tech Table representatives (limit 3)	\$475

## Meeting Hotel

Buena Vista Palace Hotel & Spa  
1900 E Buena Vista Drive  
Lake Buena Vista (Orlando), Florida 32830  
Reservations: 866-397-6516

[www.aasv.org/annmtg/2015/lodging.htm](http://www.aasv.org/annmtg/2015/lodging.htm)

## Session Locations

Unless otherwise noted, all conference sessions will be held on the Convention Level of the Buena Vista Palace Hotel & Spa. The Convention Level is accessible only from the outdoors and the Lobby Level. From your guest room, take the elevators to Level 3, then go down the escalator to the Convention Center.

## Continuing Education Credit

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

# Officers

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Dr. Michelle Sprague  
AMVC Management Services  
508 Market Street  
Audubon, IA 50025  
Tel: (712) 563-2080  
msprague@amvcms.com

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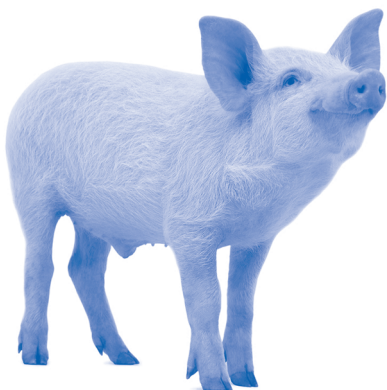
Dr. Ron Brodersen  
Suidae Health & Production  
Whole Hog Genetics  
88155 Hwy 57  
Hartington, NE 68739  
Tel: (402) 254-2444  
ronb@wholehogai.com

## **Vice President**

Dr. George Charbonneau  
109 Lightbourne Avenue  
Stratford, ON N4Z 1C8  
CANADA  
Tel: (519) 273-7170  
gcharbonneau@southwestvets.ca

## **Past President**

Dr. Matt Anderson  
Suidae Health & Production  
2200 Hwy 18 East  
PO Box 598  
Algona, IA 50511  
Tel: (515) 295-8777  
matt\_anderson@suidaehp.com



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Dr. Blaine Tully  
1628 Mathers Bay W  
Winnipeg, MB R3N 0T7  
CANADA

## **Student Delegate**

Chris Sievers  
305 Orange Avenue  
Ames, IA 50010  
USA

# Technical Tables

**Location:** Events Center

**Monday:** 9:00 AM – 5:00 PM

**Tuesday:** 8:00 AM – 12:00 PM

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Academy of Rural Veterinarians

AgCreate Solutions

Agrivolt

AgroSoft

Allflex USA/Deatron Fearing

Alltech

Animal Health International

APC

ARKO Laboratories

Automated Production Systems

Bayer HealthCare

Beller Biosecurity Strategies

BioChek

Biomin USA

Boehringer Ingelheim

Choice Genetics USA

Chr. Hansen

Christian Veterinary Mission

CLARCOR Air Filtration Products

Diamond V

DNA Genetics

Double L Group

DSM Nutritional Products

Elanco Animal Health

EPI Air

Fast Genetics

Feedstuffs & National Hog Farmer

Genesis

GlobalVetLINK

Grazix Animal Health

Harrisvaccines

Hermitage NGT

Hog Slat

Huvepharma

Hydro Systems Company

Hypor USA



# Technical Tables

IDEXX  
IMV Technologies USA  
Insight Wealth Group  
IVESCO, A Division of MWI  
JBS United Animal Health  
King Techina  
Merck Animal Health  
Merial  
MJ Biologics  
Mofa Global  
MVP Laboratories  
National Pork Board  
National Pork Producers Council  
Nedap Livestock Management  
Neogen Corporation  
Newport Laboratories  
Norbrook  
Novartis Animal Health  
Nutriquest  
Pharmacosmos  
Pharmgate Animal Health  
Phibro Animal Health Corp  
PIC  
PigCHAMP  
PigKnows  
PigTek  
Preserve International  
PureTek Genetics  
RTI – Research Technology Innovation  
Struve Labs International  
Stuart Products  
Swine Medicine Education Center (SMEC)  
TechMix  
Tetracore  
Thermo Fisher Scientific  
Topigs Norsvin USA  
USDA APHIS Veterinary Services  
Value-Added Science & Technologies  
Zinpro Corporation  
Zoetis

# Risk Assessment Training

## Web-based PRRS Risk Assessment Training for the Breeding Herd

**Date:** Saturday, February 28

**Time:** 7:30 AM – 12:30 PM

**Location:** Captain (Lobby Level)

**Fee:** No charge

**Limit:** 20 participants, AASV members only

**Coordinator:** Derald Holtkamp

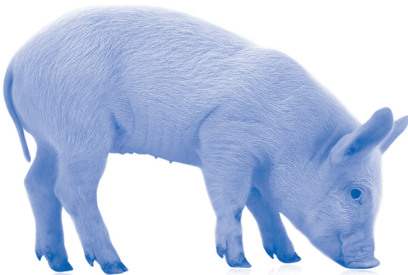
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This training will guide you through the use of the web-based PRRS Risk Assessment known as the Production Animal Disease Risk Assessment Program (PADRAP). PADRAP allows you to view benchmarking reports immediately after submitting an assessment.

Three ways veterinarians have applied the PRRS Risk Assessment:

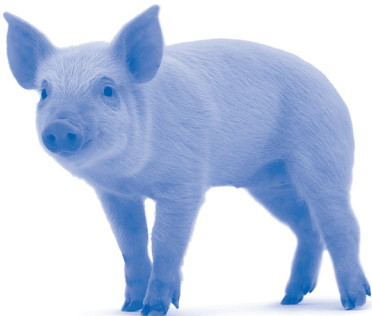
- Evaluate current biosecurity protocols and/or develop new biosecurity protocols to avoid risk
- Communicate risks and the importance of biosecurity procedures to clients or production personnel
- Aid in the decision to initiate a project to eliminate PRRSV from a breeding herd site and identify modifiable 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

## Beyond Our Oath: *Primum non nocere* and other excellent tips, tricks and shortcuts

**Date:** Saturday, February 28

**Time:** 1:00 – 5:00 PM

**Location:** Ireland B

**Fee:** \$80

**Seminar chair:** John Waddell

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Back by popular demand, the practice tips pre-conference seminar will again provide even more great “tips, tricks and shortcuts” to take home and utilize immediately in your practice and business. This year will feature tips from veteran practitioners and “young guns” alike for a great mix of experience and unbridled enthusiasm. As in years past, no proceedings will accompany these tips so you have to be “in the seats” to get the latest as these stalwarts of our profession compete to be the “top tipster” for cash and prizes. This session promises to truly go “Beyond our Oath: Integrity, Intensity, Professionalism!”

- 1:00**     What am I worth? Negotiating contracts as a new grad  
**Abbey Harding**
- 1:15**     The rubber band: The most versatile tool in practice?  
**Dale Hendrickson**
- 1:30**     Your most under-appreciated and under-utilized asset  
**Shamus Brown**
- 1:45**     Thinking “outside the crate”: Cleaning up PED in a 10,000-head, pen-gestation sow unit  
**Micah Jansen**
- 2:00**     Sh\*t I have done that you shouldn’t: The “un-practice” tip  
**Larry Rueff**
- 2:15**     Experiences with electronic sow feeding and large pen sow housing  
**Pete Schneider**

# Seminar 1

- 2:30** Engaging and motivating employees: Make it their idea!  
**Bryan Myers**
- 2:45** BREAK
- 3:15** Pooling without the pain: Factors that influence pooling results  
**Brent Pepin**
- 3:30** Turn up biosecurity against PEDV with UV  
**Andrea Pitkin**
- 3:45** Accept reality as it is, not as it used to be or as you wish it were  
**Paul DuBois**
- 4:00** Setting up a mobile office  
**Mike Eisenmenger**
- 4:15** Fantasy pig production: Draft day and free agents  
**Mike Lemmon**
- 4:30** CSF? ASF? Nope, just PCV-APES (TYL!): Scary similarities between FADs and domestic “zebras”  
**Emily Byers**
- 4:45** A man with a pickup plan  
**Monte Fuhrman**
- 5:00** Seminar concludes



# Seminar 2

## Coronavirus Diagnostics and Surveillance

**Date:** Saturday, February 28

**Time:** 1:00 – 5:00 PM

**Location:** Scotland B

**Fee:** \$95

**Seminar chair:** Alex Ramirez

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Since the introduction of PED in the US in 2013, porcine coronaviruses have become a clinical and diagnostic reality. The swine industry and profession have had a lot to learn and accomplish in just a few months. With so many unknowns and the development of many diagnostic tools, swine veterinarians are cautiously learning how to better use and interpret these tools to make the right decisions which will impact the health and well-being of millions of pigs. This pre-conference seminar will spotlight porcine epidemic diarrhea (PED), while referencing porcine delta coronavirus where applicable. The ultimate goal of this seminar is to enhance our current understanding of applicability and interpretation of diagnostic assays.

- 1:00**      Transmission: What do we know so far?  
**Montse Torremorell**
- 1:30**      Serology: Overview of PED antibody response  
**Luis Gimenez-Lirola**
- 2:00**      The use of diagnostic tools for porcine epidemic diarrhea virus and swine deltacoronavirus control  
**Travis Clement and Jane Christopher-Hennings**
- 2:30**      Surveillance: The value of oral fluids in PED surveillance  
**Marisa Rotolo**
- 3:00**      BREAK
- 3:30**      Feed diagnostics: What does it really mean – or does it even matter?  
**Steve Dritz and Loni Schumacher**
- 4:00**      Sequencing: does it really matter?  
**Jianqiang Zhang**
- 4:30**      Field application: Results from longitudinal field studies  
**Albert Rovira**
- 5:00**      Seminar concludes

# Seminar 3

## Sow Reproduction: Achieving and maintaining the high-producing sow herd

**Date:** Saturday, February 28

**Time:** 1:00 – 5:30 PM

**Location:** Ireland A

**Fee:** \$95

**Seminar chair:** Nathan Winkelman

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Benchmarking record systems show us that the top 10th percentile of US swine farms are at 29 pigs weaned per sow per year, and the very best are at 34 pw/s/yr!

The objective of this session is for our panel of experts to evaluate the genetic, management, and nutrition technologies needed to achieve this level of production, and try to understand why more herds aren't reaching their potential. The last two speakers will examine the reproduction and financial records, employee philosophy, and details for success of one of the best sow farms in existence today.

- 1:00** Swine genetics: Current and future potential  
**Matt Culbertson**
- 1:40** Gilt and sow management: Why do most systems fail to reach their potential?  
**Gustavo Pizarro**
- 2:20** Recent breakthrough findings in essential fatty acid nutrition and seasonal infertility  
**R. Dean Boyd**
- 3:00** BREAK
- 3:30** Day one critical care management: Critical tasks to maximize full value pigs  
**Sarah Probst Miller**
- 4:10** Records: Evaluating the production and financial performance of high-producing sow farms  
**Tom Stein**
- 4:50** People: What it takes to produce 34 pigs weaned/sow/year  
**Larry Coleman**
- 5:30** Seminar concludes

# Seminar 4

## Practical Interventions that Impact Swine Housing

**Date:** Saturday, February 28

**Time:** 1:00 – 5:00 PM

**Location:** Scotland A

**Fee:** \$95

**Seminar chair:** Michelle Michalak

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All pig housing is not alike, but there are many common factors. The housing environment affects the pigs' health and productivity. This workshop is filled with information that can be used on your next farm visit or team meeting. Presentations are by experts that specialize in swine production, including agricultural engineers, a livestock entomologist, a pest control expert, and a veterinarian. They will enlighten you with ideas and methods to improve the pigs' environment. Case studies will illustrate the swine practitioner's role in evaluating swine housing concerns. This workshop is practical and filled with tips and action steps.

- 1:00** Things to know about environmental sustainability:  
Keeping energy bills tamed  
**Mike Brumm**
- 1:45** Repair or replace? When is old too old?  
**Scott Unke**
- 2:30** Ventilation tweaks and upgrades to help the pig  
WIN!  
**Jeff Kurt**
- 3:00** BREAK
- 3:15** Bugs that bug you: Flies, biting insects, and meal  
moths  
**Mike Catangui**
- 4:00** Uninvited guests: Rodent control in production  
facilities  
**John Beller**
- 4:45** Roundtable Q & A  
**All presenters**
- 5:00** Seminar concludes



# Seminar 5

## Growing Pig Lameness: An emerging syndrome

**Date:** Saturday, February 28

**Time:** 1:00 – 5:00 PM

**Location:** Scotland C

**Fee:** \$95

**Seminar chair:** Matthew Turner

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“Hey, Doc – pigs look great, but they can’t walk. What can you give me to get them on the truck?” With margins reaching record highs, the cost of late finishing losses has never been more significant. Why do we lose so many pigs to lameness? This session will focus on diagnosis, prevention, and treatment of growing pig lameness. Attendees will pick up the most current tools and techniques to diagnose complex lameness issues, enabling their customers to improve their bottom line.

- 1:00** Growing pig lameness: A costly emerging issue  
**Jess Waddell**
- 1:30** Infectious causes of lameness: Diagnostic tools and approach  
**Kent Schwartz**
- 2:00** Using prevalence and severity alongside diagnostics to monitor lameness treatment plans over time  
**Sarah Probst Miller**
- 2:30** The pharmacology of lameness treatment  
**Locke Karriker**
- 2:45** BREAK
- 3:15** Emerging insights into classical cases of nutritionally induced lameness in pigs  
**Laura Amundson (Rortvedt)**
- 4:00** Diagnostic evaluation of metabolic lameness: New tools and techniques  
**Kent Schwartz**
- 4:30** A case of non-infectious lameness  
**Pete Lasley**
- 5:00** Seminar concludes

# Seminar 6

## Public Policy, Pigs, and FDA: Why you should care

**Date:** Saturday, February 28

**Time:** 1:00 – 5:00 PM

**Location:** Ireland C

**Fee:** \$95

**Seminar chair:** Jennifer Stevens

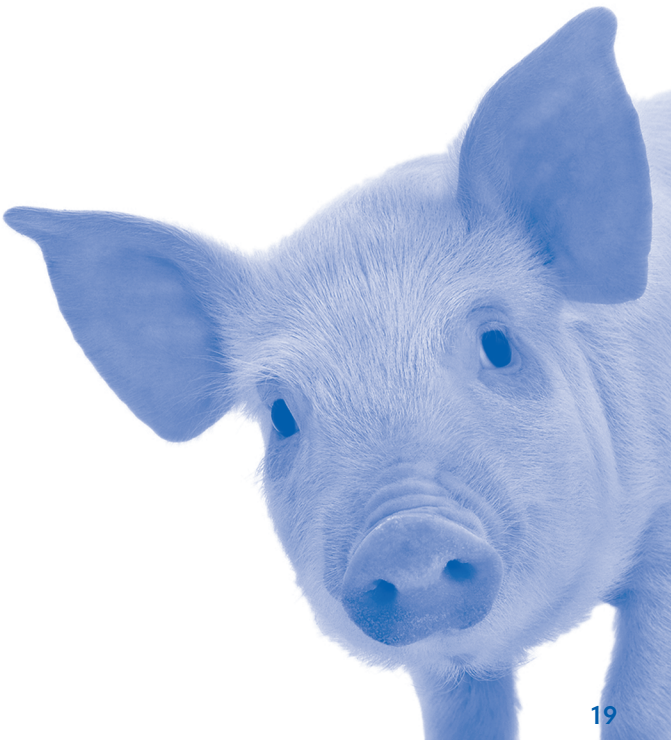
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Public policy and regulators at the US Food and Drug Administration (FDA) are playing a bigger role in how swine veterinarians work with clients and patients. This seminar will provide an update on FDA's Guidance for the Industry #213, while adding in the perspective on implementation from a state veterinarian. It will provide information and experiences about FDA inspections and prescription management that can be taken home and implemented in the practice and on the farm. AMDUCA and compounding will also be addressed. Finally, this seminar will provide an update from Washington, DC on policy that directly impacts swine veterinarians.

- 1:00**     What's happening in Washington, DC that can impact what happens on the farm  
**Liz Wagstrom**
  
- 1:30**     FDA CVM update on implementing Guidance 213 and updating the VFD rule  
**Neal Bataller**
  
- 1:50**     A State Veterinarian's perspective on Guidance 213  
**Bret Marsh**
  
- 2:15**     Prescription management in our practices  
**Todd Williams**
  
- 2:35**     FDA inspections of clinics and farms: How do we prepare and what do we do?  
**Brad Leuwerke**
  
- 2:55**     BREAK
  
- 3:25**     AMDUCA: What pain management options are available to swine veterinarians?  
**Neal Bataller**

# Seminar 6

- 3:45** AMDUCA and compounding in the real world: How do our practices conform?  
**Mike Apley**
- 4:05** The Food Safety Modernization Act and what it means to you  
**Leah Wilkinson**
- 4:35** Roundtable Q & A  
**All presenters**
- 5:00** Seminar concludes



# Praise Breakfast

**Sunday, March 1**

7:00 – 8:00 AM

Great Hall Center

**Coordinators:**

Monte Fuhrman, Tom Wetzell,  
and Mark Brinkman

## **Sponsored by Stuart Products**

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!

Praise our Lord with the AASV praise team. Then receive a God-directed message provided by AASV member Dr. David Baum!

Your free-will offering, along with support from Stuart Products, 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

## Piglet Diarrhea

**Date:** Sunday, March 1

**Time:** 8:00 AM – 12:00 PM

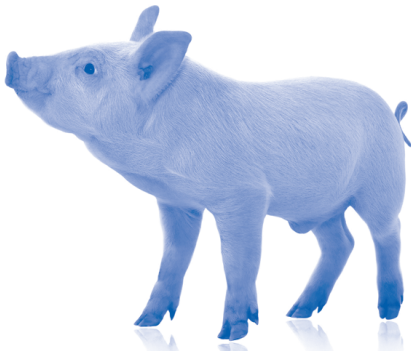
**Location:** Ireland B

**Fee:** \$95

**Seminar chair:** Andrew Bents

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- 8:00** Pathophysiology of piglet diarrhea during and after a PED infection  
**Kurt Rossow**
- 8:35** Porcine deltacoronavirus: What we know so far  
**Kelly Lager**
- 9:10** *Clostridium perfringens* and *difficile*: Proper diagnosis, prevention, and control  
**Paulo Arruda**
- 9:45** BREAK  
Sponsored by: **MERIAL and NEWPORT LABORATORIES**
- 10:15** Alternative scour prevention and control: On-farm experience  
**Deb Murray**
- 10:50** Alternative scour prevention and control: History and science of options  
**Randy Simonson**
- 11:25** *E. coli* control and prevention strategies  
**Hans Koehn**
- 12:00** Seminar concludes



# Seminar 8

## Biosecurity: Bridging the gap between science and compliance

**Date:** Sunday, March 1

**Time:** 8:00 AM – 12:00 PM

**Location:** Scotland B

**Fee:** \$95

**Seminar chair:** Adam Schelkopf

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This seminar will provide a review of infectious disease transmission and biosecurity with respect to PRRS and PEDV, followed by a look into managing biosecurity within an integrated system. We will take a look at the next levels of biosecurity, as well as understanding the risks to our country's borders. Finally, there will be a look into biosecurity within the poultry industry and human behavior. A roundtable discussion will conclude the seminar.

- 8:00** Biosecurity: PRRS, PEDV, and a history of progress  
**Scott Dee**
- 8:45** Managing biosecurity in an integrated system  
**Deborah Murray**
- 9:30** BREAK  
Sponsored by: **MERIAL and NEWPORT LABORATORIES**
- 10:00** Biosecurity to the extremes and protecting our borders  
**Dick Hesse**
- 10:45** Biosecurity: Driving execution  
**Jean-Pierre Vaillancourt**
- 11:30** Biosecurity roundtable Q&A  
**All speakers**
- 12:00** Seminar concludes

# Seminar 9

## Nutrition and Feeding in the Era of PED Virus

**Date:** Sunday, March 1

**Time:** 8:00 AM – 12:00 PM

**Location:** Scotland A

**Fee:** \$95

**Seminar chair:** Joel Spencer

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The introduction of PED virus into North America has intensified the focus on feeding health-challenged pigs and early-weaned pigs. This session delves into the latest science and on-farm practices for feeding pigs that are challenged by health status or young age. The session will also provide the latest knowledge of the relationships between PEDV/PDCoV transmission and feed.

- 8:00** Neonatal nutritional concepts learned by using piglets as models for preterm human nutrition  
**Randy Buddington**
- 8:45** Nutrition concepts for early-weaned PEDV pigs and nutrition-related welfare concerns  
**Laura Greiner**
- 9:30** BREAK  
Sponsored by: **MERIAL and NEWPORT LABORATORIES**
- 9:50** Research update on nutrition and metabolism needs for health-challenged pigs  
**Nick Gabler**
- 10:40** State of the knowledge: The relationships between PEDV/PDCoV transmission and feed  
**Russ Nugent**
- 11:40** Q & A Roundtable  
**All speakers**
- 12:00** Seminar concludes

# Seminar 10

## Swine Medicine for Students

**Date:** Sunday, March 1

**Time:** 8:00 AM – 12:00 PM

**Location:** Ireland A

**Fee:** \$95; No charge for veterinary students or 2013 or 2014 DVM graduates

**Seminar co-chairs:** Angela Supple and Jeremy Pittman

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The student pre-conference seminar has been set up to provide supplementary and useful information that students may not receive in their veterinary curriculum. The goal is to provide this information through the experience of recent graduates who remember what it was like to be a student. This year, we will return to a topic that is consistently requested and in which many students feel deficient upon graduating: medication. In addition, the ever-popular interactive case will return in this session. To close the session, we will have a question-and-answer panel of recent graduates (within 1 year) from a variety of practice types.

**8:00** Introduction

**8:05** Essentials of farm pharm  
**Jeremy Pittman**

**9:00** Practical farm pharm  
**Amber Stricker**

**9:50** BREAK  
Sponsored by: **MERIAL and NEWPORT  
LABORATORIES**

**10:00** Multi-sourced commingling event and interactive case  
**Angela Supple and Jeremy Pittman**

**11:30** Q & A: What to expect the first year out?  
**Recent Graduate Panel**

**12:00** Seminar concludes



# Seminar 11

## Boar Stud Health, Biosecurity, and Technology

**Date:** Sunday, March 1

**Time:** 8:00 AM – 12:00 PM

**Location:** Scotland C

**Fee:** \$95

**Chair:** Joe Fent

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Our focus is two-fold: first, to address the challenge of PEDV specific to boars, and second, to examine the ways boar studs influence reproductive performance. Whether you are responsible for the health of a boar stud, need to know more about the judicious use of CASA systems to better apply motility, morphology, and morphometry parameters at the production level, have an interest in reference lab flow cytometry analysis, or work primarily with sow farms and want to hear a western European perspective on what boar studs can and should be doing to protect and enhance your client's performance, this is the session for you. Swine practitioners and consultants will leave this seminar with practical information they can apply immediately, and will gain confidence in becoming familiar with topics they are likely to encounter in the near future.

- 8:00** PEDV and boars: Case studies from practitioner experience  
**Marlena McCarty and Bob Thompson**
- 8:45** PEDV and boars: Research update  
**Darwin Reicks**
- 9:15** Internal quality control performed at boar studs: The importance to the breeding herd veterinarian  
**Hanneke Feitsma**
- 9:45** BREAK  
Sponsored by: **MERIAL and NEWPORT LABORATORIES**
- 10:00** Currently available technologies to refine semen analysis, processing decisions, and boar usage  
**Claus Hansen**
- 11:00** Chromosomal causes of impaired reproductive performance in swine  
**Alain Pinton**
- 12:00** Seminar concludes

# Research Topics

## Research Topics

**Date:** Sunday, March 1

**Time:** 8:00 AM – 12:00 PM

**Location:** England

**Session chair:** Chris Rademacher

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- 8:00** Viremia and tissue distribution of porcine epidemic diarrhea virus in weaned pigs after experimental infection  
**Mahesh Bhandari**
- 8:15** Evaluation of porcine epidemic diarrhea virus transmission and the immune response in growing pigs  
**Kimberly Crawford**
- 8:30** Defining PEDV maternal immunity and correlates of neonatal protection  
**Korakrit Poonsuk**
- 8:45** Comparison of the pathogenesis differences of the US PEDV prototype and variant strains in neonatal piglets  
**Jianqiang Zhang**
- 9:00** In vitro evaluation of serological cross-reactivity and cross-neutralization between the US PEDV prototype and variant strains  
**Qi Chen**
- 9:15** Does previous infection of sows with a “mild” (variant) strain of PED virus confer significant protection against infection with a “severe” (prototype) strain?  
**Dane Goede**
- 9:30** Airborne transmission of PED virus and effect of the electrostatic particle ionization technology on decreasing airborne swine viruses  
**Carmen Alonso**
- 9:45** BREAK  
Sponsored by: **MERIAL and NEWPORT LABORATORIES**

# Research Topics

- 10:15** Risk assessment of feed ingredients of porcine origin as vehicles for transmission of porcine epidemic diarrhea virus (PEDV)  
**Fernando Sampedro**
- 10:30** A porcine deltacoronavirus serological survey using an indirect PDCoV anti-IgG ELISA confirms that PDCoV infection in US pigs is low and has been present since 2010  
**Tanja Opriessnig**
- 10:45** Histopathological and immunohistochemical characterization of pigs experimentally infected with porcine deltacoronavirus  
**Sarah Vitosh-Sillman**
- 11:00** Effects of porcine reproductive and respiratory syndrome (PRRS) modified live virus vaccine on the host response of nursery pigs to co-infection with PRRS virus and porcine circovirus type 2b  
**Megan Niederwerder**
- 11:15** Dynamics of co-circulating H1N1 and H3N2 influenza A viruses in a cohort of pigs after weaning  
**Andres Diaz**
- 11:30** Effect of timing of gilt relocation from group pens to individual stalls on measures of fertility and well-being  
**Laura Greiner**
- 11:45** The timing of estrus and ovulation in gilts synchronized using Matrix and the effects of synchronizing ovulation using OvuGel® on fertility  
**Rob Knox**
- 12:00** Session concludes

# Sunday Session #1

## Student Seminar

**Date:** Sunday, March 1

**Time:** 1:00 – 5:15 PM

**Location:** Great Hall North

**Session co-chairs:** Alex Ramirez and Peter Davies

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### Sponsored by ZOETIS

- 1:00** Impact of piglet weight and weaning age on influenza A virus infection and nucleoprotein antibody levels at weaning  
**Hunter Baldry, University of Minnesota**
- 1:15** An investigation of PRRSV-positive PCR findings in weanling pigs using a novel sampling method  
**Brigitte Mason, University of Illinois**
- 1:30** The effects of vaccination timing on porcine circovirus type 2 viremia  
**Colleen Crozier, North Carolina State University**
- 1:45** Comparison of sow decubital shoulder ulcer treatments  
**Emily Renner, University of Minnesota**
- 2:00** Effect of porcine epidemic diarrhea virus infectious doses on outcome of infection in naïve neonatal piglets and weaned pigs  
**Joseph Thomas, Iowa State University**
- 2:15** Persistence of clinical signs associated with a porcine epidemic diarrhea virus outbreak on a farrow-to-grow swine operation in southwestern Ontario: A case study  
**Ryan Tenbergen, University of Guelph**
- 2:30** Correlation of semi-quantitative reverse transcription polymerase chain reaction results for porcine epidemic diarrhea virus and the presence of positive immunohistochemistry  
**Alyssa Taplett, Iowa State University**
- 2:45** BREAK  
Sponsored by: **HARRISVACCINES**

# Sunday Session #1

- 3:15** Evaluation of an accelerated hydrogen peroxide disinfectant to inactivate PEDV in swine feces on metal surfaces found in livestock trailers  
**Jacqueline Myers, Iowa State University**
- 3:30** Comparison of ante-mortem sampling procedures to post-mortem bronchial swabs for detection of *Mycoplasma hyopneumoniae* by PCR  
**Christopher Sievers, Iowa State University**
- 3:45** Evaluation of disinfectants to neutralize porcine epidemic diarrhea virus  
**Scott Radke, Iowa State University**
- 4:00** Use of environmental sampling and bioassay as supportive diagnostics in eliminating porcine epidemic diarrhea virus from sow farms  
**Kathleen Wood, North Carolina State University**
- 4:15** A solution to controlled exposure of feedback material in group-housed gestating sows  
**Alexandra John, University of Pennsylvania**
- 4:30** Evaluation of a porcine epidemic diarrhea vaccine to reduce preweaning mortality  
**Amanda Harris, Iowa State University**
- 4:45** Evaluating the use of Swiffer® pads to detect porcine epidemic diarrhea virus in the farrowing environment  
**Quinn Robinson, Iowa State University**
- 5:00** Pharmacokinetics of translactational delivery of the analgesic meloxicam  
**Brianna Peters, University of Tennessee**
- 5:15** Session concludes

## STUDENT RECEPTION



Sponsored by:  
**MERCK ANIMAL HEALTH**

Sunday, March 1  
8:30 – 11:00 PM

Great Hall North

# Sunday Session #2

## Industrial Partners

**Date:** Sunday, March 1

**Time:** 1:00 – 4:30 PM

**Location:** Great Hall Center

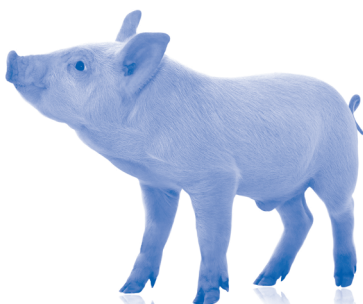
**Session chair:** Dwain Guggenbiller

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- 1:00** Impact of Neo-Terramycin<sup>®</sup>, Mecadox<sup>®</sup>, Denagard<sup>®</sup> plus CTC and Denagard<sup>®</sup> feeding programs on nursery pigs with PEDV, *Salmonella* serovars, and *E coli*  
**Dwain Guggenbiller**  
**PHIBRO ANIMAL HEALTH**
- 1:15** Novel tool for on-farm quantification of prevalence and severity of sow claw lesions and lameness  
**Jerry Torrison**  
**ZINPRO CORPORATION**
- 1:30** How post-cervical artificial insemination (PCAI) impacts the sow farm and reduces genetic lag  
**John Sonderman**  
**DNA GENETICS**
- 1:45** Practicalities of batch farrowing implementation  
**Juan Carlos Pinilla**  
**PIC NORTH AMERICA**
- 2:00** New developments in dietary acidifier usage for swine  
**Joseph Soto**  
**BIOMIN USA**
- 2:15** Map-based comparative genomic analysis of a virulent *Streptococcus suis* serotype 2 strain against recent field isolates  
**Paulraj Lawrence**  
**NEWPORT LABORATORIES**
- 2:30** Virulence-associated multi-locus genetic typing of *Streptococcus suis*  
**Srivishnupriya Anbalagan**  
**NEWPORT LABORATORIES**

# Sunday Session #2

- 2:45** BREAK  
Sponsored by: **HARRISVACCINES**
- 3:15** Development of real-time PCR reagents for the detection of porcine epidemic diarrhea virus and porcine deltacoronavirus  
**Michael Angelichio**  
**IDEXX**
- 3:30** System-based PRRS control: A summary of 4 large system PRRS control projects  
**John Kolb**  
**BOEHRINGER INGELHEIM VETMEDICA**
- 3:45** Evaluation of the Enterisol® Salmonella T/C vaccine strains against challenge with a virulent S Typhimurium isolate  
**Axel Neubauer**  
**BOEHRINGER INGELHEIM VETMEDICA**
- 4:00** *Mycoplasma hyopneumoniae* gilt acclimation and sow herd stability: Essentials to the systematic control approach  
**Eduardo Fano**  
**BOEHRINGER INGELHEIM VETMEDICA**
- 4:15** Efficacy of an innovative food to reduce neonatal losses in piglets and increase pre-weaning growth  
**Hervé Gabillet**  
**EARLYPIG**
- 4:30** Session concludes



# Sunday Session #3

## Industrial Partners

**Date:** Sunday, March 1

**Time:** 1:00 – 4:15 PM

**Location:** Great Hall East/West

**Session chair:** Adam Moeser

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- 1:00** Detection of tylvalosin (Aivlosin®) in synovial fluid from nursery pigs  
**Paisley Canning**  
**PHARMGATE ANIMAL HEALTH**
- 1:15** Enterotoxigenic *E. coli* pathophysiology and new insights on the impact of gut function and health  
**Adam Moeser**  
**ELANCO ANIMAL HEALTH**
- 1:30** Evaluation of the effects of narasin on the growth performance and viral shedding of nursery pigs infected with porcine epidemic diarrhea virus  
**Chris Puls**  
**ELANCO ANIMAL HEALTH**
- 1:45** A health information management system to analyze diagnostic data for rapid, precise decision-making  
**Joseph Connor**  
**GLOBALVETLINK**
- 2:00** Nursery, finishing and wean-to-finish cost-of-production data benchmarking  
**Tom Stein**  
**METAFARMS**
- 2:15** Post-PEDV sow reproductive performance following an epidemic  
**James Lehman**  
**MERCK ANIMAL HEALTH**
- 2:30** Circumvent® PCV M G2: Impact of vaccination timing and interval on PCV2 efficacy and serological responses  
**Brad Thacker**  
**MERCK ANIMAL HEALTH**



# Sunday Session #3

- 2:45** BREAK  
Sponsored by: **HARRISVACCINES**
- 3:15** PCV2 vaccination update: Field experiences and serological test comparisons  
**Brad Thacker**  
**MERCK ANIMAL HEALTH**
- 3:30** Vaccination of sows with CIRCOVAC® and piglet PCV2 vaccination gives better chances to control PCV2 circulation in the pig flow  
**Francois Joisel**  
**MERIAL**
- 3:45** The impact of supportive care on Challenged Pig recovery  
**Dan McManus**  
**PURINA ANIMAL NUTRITION**
- 4:00** A new PRRSV ELISA, highly correlated with IPMA  
**Eric van Esch**  
**BIOCHEK**
- 4:15** Session concludes

## WELCOME RECEPTION



Sponsored by:  
**ZOETIS**

Sunday, March 1  
6:30 – 8:30 PM

Scotland/England

# Sunday Session #4

## Industrial Partners

**Date:** Sunday, March 1

**Time:** 1:00 – 4:15 PM

**Location:** England

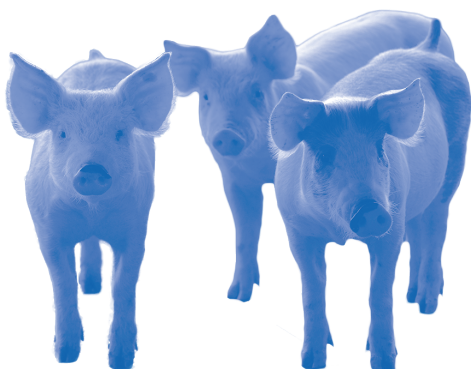
**Session chair:** Gene Nemecek

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- 1:00** New findings for injectable and oral fat-soluble vitamins  
**Robert Stuart**  
**STUART PRODUCTS**
- 1:15** EUTHANEX® AgPro™ humane euthanasia with CO2: How it meets AVMA *Guidelines for the Euthanasia of Animals*: 2013 Edition  
**Corky Feuerbach**  
**VALUE-ADDED SCIENCE & TECHNOLOGIES**
- 1:30** Comparison of culture and PCR from oral fluids for the detection of *Brachyspira hyodysenteriae*  
**Perle Boyer**  
**NOVARTIS ANIMAL HEALTH US**
- 1:45** Solubility of Florvio® under various water quality conditions in the laboratory  
**Keith Erlandson**  
**NOVARTIS ANIMAL HEALTH US**
- 2:00** Evaluation of reproductive performance using OvuGel® with a single fixed-time artificial insemination protocol in six commercial swine farms  
**Charles Francisco**  
**JBS UNITED ANIMAL HEALTH**
- 2:15** Fosterera PRRS keeps pigs growing in the face of heterologous challenge  
**Brett O'Brien**  
**ZOETIS**
- 2:30** Field efficacy of an experimental porcine epidemic diarrhea vaccine, killed virus, administered to pregnant sows  
**Ashley DeDecker**  
**ZOETIS**

# Sunday Session #4

- 2:45** BREAK  
Sponsored by: **HARRISVACCINES**
- 3:15** Anti-inflammatory properties of Draxxin®  
(tulathromycin)  
**Doug King**  
**ZOETIS**
- 3:30** ESF implementation options: Finding the right  
solution to meet your clients' needs  
**Jeff Schoening**  
**AUTOMATED PRODUCTION SYSTEMS**
- 3:45** Feeding a proprietary animal protein mitigates  
PRRSV-induced effects in mature gilts  
**Ran Song**  
**NUTRIQUEST**
- 4:00** Evaluation of PED RNA vaccine efficacy in a dam  
vaccination, suckling pig challenge model  
**Mark Mogler**  
**HARRISVACCINES**
- 4:15** Session concludes



# Poster Session

## Veterinary Student Posters (#1 – #46)

**Location:** Events Center

**Sunday, March 1**

12:00 – 5:00 PM

Authors present from 12:00 – 1:00 PM

**Monday, March 2**

9:00 AM – 5:00 PM

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### Sponsored by ZOETIS

Posters #1-15 have been selected for judging in the Student Poster Competition, with scholarship awards sponsored by **NEWPORT LABORATORIES**

1. A porcine reproductive and respiratory syndrome virus vaccine based on the synthetic attenuated virus engineering (SAVE) approach is attenuated and effective in protecting against macroscopic lung lesions associated with homologous virus challenge  
**Danielle Evenson, Iowa State University**
2. A retrospective study of *Brachyspira hamptonii* in western Canadian swine using paraffin-embedded colon tissue from diagnostic cases  
**Stephanie Derbawka, University of Saskatchewan**
3. Effect of reconstitution of an influenza A swine vaccine with another vaccine on the serological response  
**Daniel Gascho, Purdue University**
4. Evaluation of deworming protocols in breeding herds using a survey and fecal examination  
**Cassy Griebel, University of Minnesota**
5. Individual Pig Care: Determining the best management practice for the B-pig  
**Chelsea Onken, Iowa State University**
6. Investigation of neutralizing antibodies to determine lactogenic immunity levels following exposure to porcine epidemic diarrhea virus  
**Erin Jobman, Kansas State University**

# Poster Session

## Veterinary Student Posters

7. Alternative methods of measuring swine body temperature  
**Amanda Jara, University of Georgia**
8. Serology comparison of pigs vaccinated with Ingelvac® PRRS MLV at different ages, from a PRRSV positive stable source  
**Tyler Te Grotenhuis, Iowa State University**
9. Vaccination mitigates the negative impact PRRSV infection has on the pharmacokinetics of ceftiofur crystalline free acid in pigs  
**Joel Sparks, Iowa State University**
10. Comparison of 4 euthanasia methods in weaning age piglets  
**Dan Breuer, Iowa State University**
11. Elucidating positive states of sow welfare  
**Bernadetta Bernatowicz, University of Pennsylvania**
12. Comparison of sampling methods for detection of influenza A virus  
**Kayla Ohrt, Iowa State University**
13. The effect of translactational antibodies on preweaning mortality in a porcine epidemic diarrhea virus exposed herd  
**Donna Drebes, University of Minnesota**
14. Differences in host genetics influence PCVAD susceptibility based on experimental challenges with porcine circovirus 2b  
**Taylor Engle, Virginia-Maryland Regional College of Veterinary Medicine**
15. Evaluation of Flu DETECT antigen test kit using three different sampling methods during natural infections of influenza A virus in swine  
**Joseph Yaros, Cornell University**
16. Determining *Mycoplasma hyopneumoniae* viability through the use of ethidium monoazide  
**Alyssa Anderson, University of Minnesota**

*Continued on next page*

# Poster Session

## Veterinary Student Posters

17. Swine handling facilities at small regional pork processors  
**Kayla Blake, Auburn University**
18. Characterization of lesions of pigs rejected at finisher placement  
**Daniel Boykin, North Carolina State University**
19. Prophylactic antibiotic and navel care used for the prevention of umbilical hernias in swine  
**Daniel Carreño, North Carolina State University**
20. Comparison of performance in pigs administered Foster's PRRS at processing or weaning with subsequent PRRSV challenge in nursery  
**Laura Carroll, North Carolina State University**
21. Feral swine and brucellosis in the United States  
**Adam Copeland, Texas A&M University**
22. Influence of caretaker preferences and implementation of protocols on the use of carbon dioxide gas for piglet euthanasia  
**Lindsay Daly, Cornell University**
23. Characterization and management of *Mycoplasma hyopneumoniae* status in a newly established genetic multiplication herd  
**Natalie Didier, University of Illinois**
24. The effects of hemoglobin levels on growth rates in pigs  
**Sarah Dunnigan, North Carolina State University**
25. Examining spatial dynamics of influenza A virus in swine at agricultural fairs  
**Alexa Edmunson, The Ohio State University**
26. Comparison of tracheobronchial mucus collection and RT-PCR with seroconversion for assessment of herd prevalence  
**Brittany Farron, University of Illinois**
27. Influence of the neonatal piglet microbiota on survivability and wean weight  
**Marissa Garry, University of Minnesota**

# Poster Session

## Veterinary Student Posters

28. Effects of third generation cephalosporin administration at piglet processing on mortality, morbidity, average daily gain, and castration wound-healing  
**Kristen Hayman, Iowa State University**
29. Biosecurity audits of grow-finish sites  
**Jessica Johnson, University of Minnesota**
30. Evaluation of diagnostic sampling types to evaluate porcine epidemic diarrhea virus shedding status after known exposure to replacement gilts  
**Henry Johnson, University of Illinois**
31. An evaluation of 4 different mobile phone applications for on-farm data collection  
**Mackenzie Kelling, University of Illinois**
32. The association between environmental conditions and diseases in nursery pigs  
**Kaushalya Kuruppu, University of Guelph**
33. Monitoring of porcine reproductive and respiratory syndrome virus in Ontario swine herds and assessing its impact on morbidity and mortality  
**Roxana Lelewski, University of Guelph**
34. Seasonal infertility: A clinical case analysis  
**Emily Mahan-Riggs, North Carolina State University**
35. Investigation into increased rectal, uterine, and vaginal prolapses in commercial sow herds  
**Brittney McLamb, North Carolina State University**
36. Environmental enrichment for growing swine  
**Heather Neureuther, University of Guelph**
37. Comparison of Florvio® and amoxicillin impacts on clinical diarrhea and average daily gain  
**Mara Nix, University of Illinois**

*Continued on next page*

# Poster Session

## Veterinary Student Posters

38. A pilot study evaluating maternal antibody interference with Ingelvac PRRS MLV and Fostera PRRS vaccines  
**Mary O'Loughlin, Iowa State University**
39. The challenge of type 1 PRRSV isolation and propagation: A review  
**Chris Olsen, Iowa State University**
40. Behavioral preference for different enrichment types in a commercial sow herd  
**Lynn Pavlovic, University of Pennsylvania**
41. Determining if oral fluids can detect *Lawsonia intracellularis* in a commercial pen environment  
**Megan Pieters, Iowa State University**
42. Systematic investigation of elevated piglet mortality in a high health swine herd  
**Amy Sneed, University of Illinois**
43. Visual evaluation of sleep behavior in crated gestating sows  
**John Sopronyi, University of Pennsylvania**
44. A retrospective study on the distribution of MLST types ST1, ST25, and ST28 of *Streptococcus suis* serotypes 1/2 and 2 clinical strains isolated in the US and evaluation of immunogenicity of each MLST in mice by vaccination  
**Molly Stafne, Iowa State University**
45. Influenza A virus testing: Which sample material should you use?  
**Christine Szablewski, The Ohio State University**
46. Prevalence of coccidiosis in nursing piglets  
**Emily Zakrajsek, University of Guelph**



# Poster Session

## Research Topics Posters (#47 - #62)

**Location:** Events Center

**Sunday, March 1**

12:00 – 5:00 PM

Authors present from 12:00 to 1:00 PM

**Monday, March 2**

9:00 AM – 5:00 PM

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- 47.** Particle size characterization of influenza A, PRRS, and PED viruses in aerosols from acutely infected pigs  
**Carmen Alonso**
- 48.** Exploring the uses of a PRRS area regional control and elimination database for disease investigation  
**Andreia Arruda**
- 49.** Determining the frequency and associated risk factors of type A influenza virus infections in swine upon arrival at agriculture exhibitions  
**Nola Bliss**
- 50.** Novel molecular epidemiology tools to assess the relation among porcine reproductive and respiratory syndrome viruses causing outbreaks in sow farms  
**Andres Perez**
- 51.** Effects of gilt body weight on litter characteristics under commercial conditions  
**Marcio Goncalves**
- 52.** Evaluation of a PED vaccine on piglet mortality and sow immunity  
**Laura Greiner**
- 53.** Cross-protection after challenge with a contemporary, heterologous PRRS virus in pigs vaccinated with Fosterera PRRS™  
**Drew Magstadt**
- 54.** 26-week duration of respiratory immunity for Fosterera PRRS™ vaccine in day-old piglets  
**Brett O'Brien**

*Continued on next page*

# Poster Session

## Research Topics Posters

55. Experimental PRRS vaccine for prevention of reproductive disease in gestating gilts  
**Brett O'Brien**
56. Evidence from bioassays that commercial spray drying processes are effective at inactivating PEDV  
**Tanja Opriessnig**
57. Impact of mixing strategies on animal-based measures of welfare in sows fed via electronic sow feeder  
**Meghann Pierdon**
58. Safety and immunogenicity of an experimental porcine epidemic diarrhea vaccine, killed virus  
**Vicki Rapp-Gabrielson**
59. Biological hazard analysis and biosecurity assessments for feed manufacturing and distribution in the swine feed supply chain  
**Tim Snider**
60. Quantitative evaluation of nasal carriage of *Staphylococcus aureus* in swine veterinarians  
**Jisun Sun**
61. Seasonal variation in prevalence of different respiratory pathogens during post-weaning and fattening period in Belgian and Dutch pig herds using a tracheo-bronchial swab technique  
**Frederic Vangroenweghe**
62. Survey on pig farmers' current knowledge on important aspects of Good Vaccination Practices under field conditions in the Netherlands  
**Frederic Vangroenweghe**

# Poster Session

## Industrial Partners Posters (#63 - #72)

**Location:** Grand Hall (conf center, 1<sup>st</sup> floor)

**Sunday, March 1**

12:00 – 5:00 PM

Authors present from 12:00 to 1:00 PM

**Monday, March 2**

9:00 AM – 5:00 PM

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- 63.** Effect of piglet birth weight on performance and profitability  
**Darwin Kohler**  
**BABCOCK GENETICS**
- 64.** In vitro activity of 12 antimicrobials against an oral attenuated live *Lawsonia intracellularis* vaccine isolate  
**Bernd Grosse Liesner**  
**BOEHRINGER INGELHEIM VETMEDICA**
- 65.** Comparative performance of Hyogen® and three commercial Mhyo vaccines: Slaughterhouse evaluation  
**William M.T. Costa**  
**CEVA ANIMAL HEALTH BRAZIL**
- 66.** The use of antemortem tracheobronchial mucus collection technique for *Mycoplasma hyopneumoniae* diagnostics  
**Jessica Bates**  
**ELANCO ANIMAL HEALTH**
- 67.** Evaluation of gilt reproductive performance using OvuGel® with a single fixed-time artificial insemination protocol  
**Michael Johnston**  
**JBS UNITED ANIMAL HEALTH**
- 68.** Diagnostic and control strategies for managing PCV2 in the breeding herd  
**Keith Aljets**  
**MERCK ANIMAL HEALTH**
- 69.** Market hog sales data benchmarking  
**Tom Stein**  
**METAFARMS**

*Continued on next page*

# Poster Session

## Industrial Partners Posters

- 70.** A case report on discrepant serologic results obtained from ELISA and Western blot immunoassay for young pigs that received two vaccinations with *Mycoplasma hyopneumoniae* vaccine  
**Boh Chang Lin**  
**MVP LABORATORIES**
- 71.** *Lawsonia* shedding in grow-finish pigs given a partial dose of *Lawsonia* vaccine. A case study  
**Bob Evelsizer**  
**NOVARTIS ANIMAL HEALTH US**
- 72.** Comparative evaluation of two-dose PCV/*M hyopneumoniae* vaccination protocols in swine challenged with PCV and *M hyopneumoniae*  
**Bobby Cowles**  
**ZOETIS**

## INTERNET KIOSK

Sponsored by **GLOBALVETLINK**



Located in Hampton Court Booth

# Technical Tables

The marketplace devoted to the needs of the swine veterinarian.



## Visit the Technical Tables Exhibit!

With more than 75 companies and organizations participating (see page 8), the Technical Tables offer the perfect opportunity to learn about the latest products and services available to you and your clients.

### EXHIBITS OPEN

Monday, March 2  
9:00 AM – 5:00 PM

Tuesday, March 3  
8:00 AM – 12:00 PM

### LOCATION

Events Center

All refreshment breaks on Monday and Tuesday will take place in the Events Center. Take some time to visit with our exhibitors and thank them for their support of the AASV Annual Meeting!

## SPOUSE HOSPITALITY SUITE



**Monday, March 2**  
7:00 – 9:00 AM  
Veranda (Lobby Level)

The AASV is pleased to host the Spouse Hospitality Suite at the Buena Vista Palace. 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 Big, Hairy, Audacious Raffle

Here's a fabulous opportunity for ALL AASV members to support the Foundation and have a chance to win – drum roll, please –



**A BRAND NEW  
CAR!**



That's right - **MVP LABORATORIES** has demonstrated their passionate support of the AASV Foundation by donating a **car valued at \$25,000** to raffle in Orlando, with all proceeds benefiting the foundation.

The raffle drawing will be held during the Live Auction on **Monday, March 2**.

It is not necessary to be present for the drawing in order to win.

For \$100 per raffle ticket, you can support the foundation AND have a chance to win a brand new vehicle valued at \$25,000. Contact the AASV office or one of the Auction Committee members to purchase your ticket(s) and show your support for the AASV Foundation!

# AASV Foundation Auction



Monday, March 2

Empire Ballroom

## Follow Your Passion!

It's only fitting that this year's AASVF Auction Committee has dedicated the 2015 fundraiser in honor of two of the foundation's most passionate supporters, the late Dr Rod Johnson and his wife, Jean. Rod and Jean donated items for the annual Foundation Auctions as generously and enthusiastically as they requested donations from others, and then followed up with their active participation in the bidding. The example set by Rod and Jean reminds us all of the greatness that can be achieved when we put the words "Follow your passion" into action.

Look over the auction catalog or go to [aasv.org/foundation](http://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 2. The bidding will close Monday evening, and we'll announce the names of the winning bidders at the AASV Awards Reception.

### Live Auction

The Live Auction will be held at the conclusion of the AASV Awards Reception Monday evening.

[aasv.org/foundation](http://aasv.org/foundation)

# Monday General Session

## Beyond Our Oath: Integrity, Intensity, Professionalism

**Date:** Monday, March 2

**Time:** 8:00 AM – 12:30 PM

**Location:** Great Hall East/West

**Program chair:** Ron Brodersen

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**8:00**    **Howard Dunne Memorial Lecture**

Because it's the right thing to do

**Greg Stevenson**

**9:00**    **Alex Hogg Memorial Lecture**

Influence and advocacy: Opportunities for swine veterinarians

**C. Scanlon Daniels**

**10:00**    BREAK

Co-sponsored by **HOG SLAT**

### **PED, TGE, and Enteric Immunology:**

**10:30**    Coronavirus overview and maternal vaccines to induce lactogenic immunity to PEDV in swine

**Linda Saif**

**11:10**    Gut immunity – What are the keys to protection?

**Chris Chase**

**11:50**    Coronavirus clinical presentation

**Dick Hesse**

**12:30**    LUNCHEON

## AASV LUNCHEON



Sponsored by:  
**BOEHRINGER INGELHEIM  
VETMEDICA, INC**

Monday, March 2  
12:30 – 2:00 PM

Empire Ballroom



# Monday Session #1

## Managing Enteric Coronaviruses at the Farm Level

**Date:** Monday, March 2

**Time:** 2:00 – 5:30 PM

**Location:** Great Hall North

**Session chair:** Jeff Harker

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- 2:00** Managing the initial break  
**Elissa Schlueter**
- 2:25** Intentional exposure techniques  
**Matthew Turner**
- 2:50** PED rebreaks  
**Matt Ackerman**
- 3:15** BREAK  
Sponsored by **CEVA ANIMAL HEALTH**
- 3:45** Managing chronic farms  
**Luc Dufresne**
- 4:10** Risk factors for chronic farms  
**Jeremy Pittman**
- 4:35** Time to stability/negative  
**Dane Goede**
- 5:00** Roundtable discussion  
**All speakers**
- 5:30** Session concludes

## AASV AWARDS RECEPTION



Sponsored by:  
**ELANCO ANIMAL HEALTH**

Monday, March 2

6:30 – 8:30 PM

Empire Ballroom

# Monday Session #2

## Animal Welfare

**Date:** Monday, March 2

**Time:** 2:00 – 5:30 PM

**Location:** Great Hall Center

**Session chair:** George Charbonneau

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- 2:00** What's coming down the pipe?  
**Donald Lay**
- 2:30** Canada's new pig code  
**Blaine Tully**
- 2:45** AMDUCA and pain mitigation; What tools are available to veterinarians?  
**Mike Apley**
- 3:15** Meloxicam use in pain management  
**Locke Karriker**
- 3:30** BREAK  
Sponsored by **CEVA ANIMAL HEALTH**
- 4:00** Feeding sows in pens: Keeping it simple  
**Chad Smith**
- 4:15** Advantages and challenges of implementing electronic sow feeding (ESF)  
**Thomas Parsons**
- 4:30** Beta-agonists and animal welfare  
**Jeremy Marchant-Forde**
- 4:45** Feeding/nutrition interactions affecting aggression  
**Jeremy Marchant-Forde**
- 5:00** B.E.S.T.: Identifying the sick or compromised pig  
**Madonna Benjamin**
- 5:15** Caring for pigs in hospital pens  
**Suzanne Millman**
- 5:30** Session concludes

# Monday Session #3

## Significant Swine Disease Topics

**Date:** Monday, March 2

**Time:** 2:00 – 5:30 PM

**Location:** Great Hall East/West

**Session chair:** Mitch Christensen

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- 2:00** PCV2: Tools for assessing the subclinical impact  
**Kent Schwartz**
- 2:30** Influenza A viruses in swine: Diversity, diagnostics and interpretation  
**Phil Gauger**
- 3:00** Parainfluenza: Influenza-like syndromes  
**Kyoung-Jin Yoon**
- 3:30** BREAK  
Sponsored by **CEVA ANIMAL HEALTH**
- 4:00** *Mycoplasma hyopneumoniae* elimination: Swine Vet Center experience  
**Paul Yeske**
- 4:30** PRRS diagnostic trends: What changed with PRRS behavior?  
**Albert Rovira**
- 5:00** PRRS update from North Carolina: Regional spread of 1-7-4 virus  
**Ashley Johnson**
- 5:30** Session concludes



## AASV FOUNDATION AUCTION

Monday, March 2  
Empire Ballroom

**Silent Auction:** Bidding starts at noon

**Live Auction:** Immediately following  
the AASV Awards Reception

# Tuesday General Session

## Transboundary or FAD: What difference does it make?

**Date:** Tuesday, March 3

**Time:** 8:00 AM – 12:00 PM

**Location:** Great Hall North/Center

**Session chair:** Ron Brodersen

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- 8:00** Global effects of disease on world pork production  
**Patrick Webb**
- 9:00** Emerging diseases: The past and the future  
**Robert Desrosiers**
- 10:00** BREAK
- 10:30** Building on the Swine Futures Project: Detecting and responding to an emerging animal disease  
**Beth Lautner**
- 11:00** Protecting ourselves: The Feed Safety Modernization Act  
**Henry Turlington**
- 11:30** What veterinarians will do differently in the future  
**Max Rodibaugh**
- 12:00** Session concludes



## AASV BUSINESS BREAKFAST

Tuesday, March 3  
7:00 – 8:00 AM

Scotland

# Speakers

Matt Ackerman	Greensburg, IN
Keith Aljets	Williamsburg, IA
Carmen Alonso	St Paul, MN
Laura Amundson (Rortvedt)	Madison, WI
Srivishnupriya Anbalagan	Worthington, MN
Alyssa Anderson	St Paul, MN
Michael Angelichio	Westbrook, ME
Mike Apley	Manhattan, KS
Andreia Arruda	Guleph, ON
Paulo Arruda	Ames, IA
Hunter Baldry	St Paul, MN
Neal Bataller	Rockville, MD
Jessica Bates	Ames, IA
John Beller	Columbus, NE
Madonna Benjamin	East Lansing, MI
Bernadetta Bernatowicz	Jefferson Twp, PA
Mahesh Bhandari	Ames, IA
Kayla Blake	Auburn, AL
Nola Bliss	Columbus, OH
R. Dean Boyd	Franklin, KY
Perle Boyer	Raleigh, NC
Daniel Boykin	Raleigh, NC
Daniel Breuer	Ames, IA
Egan Brockhoff	Red Deer, AB
Shamus Brown	Indianola, IA
Mike Brumm	North Mankato, MN
Randy Buddington	Memphis, TN
Emily Byers	Warsaw, NC
Paisley Canning	Ames, IA
Daniel Carreño	Raleigh, NC
Laura Carroll	Cary, NC
Mike Catangui	Sioux Falls, SD
Chris Chase	Brookings, SD
Qi Chen	Ames, IA
Jane Christopher-Hennings	Brookings, SD
Travis Clement	Brookings, SD
Larry Coleman	Broken Bow, NE
Joseph Connor	Carthage, IL
Adam Copeland	College Station, TX
William M.T. Costa	BRAZIL
Bobby Cowles	Ridgefield, WA
Kimberly Crawford	Radcliffe, IA
Colleen Crozier	Raleigh, NC
Matt Culbertson	Hendersonville, TN

# Speakers

Lindsay Daly	Ithaca, NY
C. Scanlon Daniels	Dalhart, TX
Ashley DeDecker	Rose Hill, NC
Scott Dee	Pipestone, MN
Stephanie Derbawka	Saskatoon, SK
Robert Desrosiers	St-Hyacinthe, QC
Andres Diaz	St Paul, MN
Natalie Didier	DeLand, IL
Donna Drebes	St Paul, MN
Steve Dritz	Manhattan, KS
Paul DuBois	Cameron, OK
Luc Dufresne	Shawnee Mission, KS
Sarah Dunnigan	Raleigh, NC
Alexa Edmunson	Columbus, OH
Mike Eisenmenger	Windom, MN
Taylor Engle	Blacksburg, VA
Keith Erlandson	Greensboro, NC
Bob Evelsizer	Fairmont, MN
Danielle Evenson	Ames, IA
Eduardo Fano	St Joseph, MO
Brittany Farron	Champaign, IL
Hanneke Feitsma	Northfield, MN
Corky Feuerbach	Mason City, IA
Charles Francisco	Sheridan, IN
Monte Fuhrman	Canistota, SD
Hervé Gabillet	FRANCE
Nicholas Gabler	Ames, IA
Marissa Garry	St Paul, MN
Daniel Gascho	West Lafayette, IN
Phil Gauger	Ames, IA
Luis Gimenez-Lirola	Ames, IA
Dane Goede	St Paul, MN
Marcio Goncalves	Manhattan, KS
Laura Greiner	Carthage, IL
Cassy Griebel	Falcon Heights, MN
Bernd Grosse Liesner	St Joseph, MO
Dwaine Guggenbiller	Columbus, OH
Claus Hansen	DENMARK
Abbey Harding	Collinsville, IL
Amanda Harris	Jewell, IA
Kristen Hayman	Ames, IA
Dale Hendrickson	Farmland, IN
Dick Hesse	Manhattan, KS
Derald Holtkamp	Ames, IA

# Speakers

Micah Jansen	Wheeler, IL
Amanda Jara	Athens, GA
Erin Jobman	Manhattan, KS
Alexandra John	Philadelphia, PA
Ashley Johnson	Raleigh, NC
Henry Johnson	Champaign, IL
Jessica Johnson	Roseville, MN
Michael Johnston	Sheridan, IN
Francois Joisel	FRANCE
Locke Karriker	Ames, IA
Mackenzie Kelling	Savoy, IL
Doug King	Florham Park, NJ
Rob Knox	Urbana, IL
Hans Koehnke	Jewell, IA
Darwin Kohler	Rochester, MN
John Kolb	Ames, IA
Jeff Kurt	Fairmont, MN
Kaushalya Kuruppu	Scarborough, ON
Kelly Lager	Colo, IA
Pete Lasley	Trenton, MO
Beth Lautner	Johnston, IA
Paulraj Lawrence	Worthington, MN
Donald Lay	West Lafayette, IN
Jamie Lehman	Sullivan, IL
Roxana Lelewski	Guelph, ON
Mike Lemmon	Albion, IN
Brad Leuwerke	Janesville, MN
Boh Chang Lin	Omaha, NE
Drew Magstadt	Ames, IA
Emily Mahan-Riggs	Angier, NC
Jeremy Marchant-Forde	West Lafayette, IN
Bret Marsh	Indianapolis, IN
Brigitte Mason	Savoy, IL
Marlena McCarty	Hadar, NE
Brittney McLamb	Raleigh, NC
Dan McManus	Dakota Dunes, SD
Suzanne Millman	Ames, IA
Adam Moeser	Raleigh, NC
Mark Mogler	Ames, IA
Chris Mowrer	Ames, IA
Deborah Murray	Jackson, MN
Bryan Myers	Farley, IA
Jacqueline Myers	Ames, IA
Axel Neubauer	St Joseph, MO

# Speakers

Heather Neureuther	Guelph, ON
Megan Niederwerder	Manhattan, KS
Mara Nix	Urbana, IL
Russ Nugent	Springdale, AR
Brett O'Brien	Mankato, MN
Kayla Ohrt	Ames, IA
Mary O'Loughlin	Ames, IA
Chris Olsen	Johnston, IA
Chelsea Onken	Ames, IA
Tanja Opriessnig	Ames, IA
Tom Parsons	Kennett Square, PA
Lynn Pavlovic	Harrisburg, PA
Brent Pepin	Postville, IA
Andres Perez	St Paul, MN
Brianna Peters	Knoxville, TN
Meghann Pierdon	Bainbridge, PA
Megan Pieters	Ames, IA
Juan Carlos Pinilla	Hendersonville, TN
Alain Pinton	FRANCE
Andrea Pitkin	Fairmont, MN
Jeremy Pittman	Wakefield, VA
Gustavo Pizarro	Pipestone, MN
Dale Polson	Ankeny, IA
Korakrit Poonsuk	Ames, IA
Sarah Probst Miller	Monticello, IL
Chris Puls	Greenfield, IN
Scott Radke	Ames, IA
Vicki Rapp-Gabrielson	Kalamazoo, MI
Darwin Reicks	St Peter, MN
Emily Renner	Lauderdale, MN
Quinn Robinson	Ames, IA
Max Rodibaugh	Frankfort, IN
Kurt Rossow	St Paul, MN
Marissa Rotolo	Ames, IA
Albert Rovira	St Paul, MN
Larry Rueff	Greensburg, IN
Linda Saif	Wooster, OH
Fernando Sampedro	St Paul, MN
Elissa Schlueter	Carlyle, IL
Pete Schneider	Waterloo, IA
Jeff Schoening	Pocahontas, IA
Loni Schumacher	Manhattan, KS
Kent Schwartz	Ames, IA
Christopher Sievers	Ames, IA



# Speakers

Randy Simonson	Worthington, MN
Chad Smith	Goldboro, NC
Amy Sneed	Savoy, IL
Tim Snider	St Paul, MN
John Sonderman	Columbus, NE
Ran Song	Mason City, IA
John Sopronyi	Jackson, NJ
Joseph Soto	San Antonio, TX
Joel Sparks	Ames, IA
Molly Stafne	Ames, IA
Tom Stein	Burnsville, MN
Greg Stevenson	Ames, IA
Amber Stricker	Albert Lea, MN
Rob Stuart	Bedford, TX
Jisun Sun	St Paul, MN
Angela Supple	Hopkinton, IA
Christine Szablewski	Hilliard, OH
Alyssa Taplett	Ames, IA
Tyler Te Grotenhuis	Ames, IA
Ryan Tenbergen	Guelph, ON
Brad Thacker	Columbia, MD
Joseph Thomas	Ames, IA
Bob Thompson	Franklin, KY
Montse Torremorell	St Paul, MN
Jerry Torrison	Eden Prairie, MN
Blaine Tully	Winnipeg, MB
Henry Turlington	Arlington, VA
Matthew Turner	Clinton, NC
Scott Unke	Fairmont, MN
Jean-Pierre Vaillancourt	St-Hyacinthe, QC
Eric van Esch	THE NETHERLANDS
Frederic Vangroenweghe	BELGIUM
Sarah Vitosh-Sillman	Lincoln, NE
Jess Waddell	Sutton, NE
Liz Wagstrom	Washington, DC
Patrick Webb	Des Moines, IA
Leah Wilkinson	Arlington, VA
Todd Williams	Ottumwa, IA
Kathleen Wood	Raleigh, NC
Joseph Yaros	Ithaca, NY
Paul Yeske	St Peter, MN
Kyoung-Jin Yoon	Ames, IA
Emily Zakrajsek	Guelph, ON
Jianqiang Zhang	Ames, IA

# Saturday, February 28

## 7:00 AM

### Registration Desk open

Location: Great Hall

### Committee Meetings

Location: Events Center

## 7:30 AM

### PRRS Risk Assessment Training (page 10)

Location: Captain (Lobby Level)

## 8:00 AM

### ABVP Entrance Examination

Location: Emerald

### ABVP Oral Examination

Location: Diamond

## 1:00 PM

### SEMINARS

#### #1 Beyond Our Oath: *Primum non nocere* and other excellent tips, tricks and shortcuts (page 12)

Location: Ireland B

#### #2 Coronavirus Diagnostics and Surveillance (page 14)

Location: Scotland B

#### #3 Sow Reproduction: Achieving and expanding the high-producing heat (page 15)

Location: Ireland A

#### #4 Practical Interventions that Impact Swine Housing (page 16)

Location: Scotland A

#### #5 Growing Pig Lameness: An emerging syndrome (page 17)

Location: Scotland C

#### #6 Public Policy, Pigs, and FDA: Why you should care (page 18)

Location: Ireland C

## 5:00 PM

### OPEN EVENING

There is no reception scheduled for Saturday evening. Enjoy Orlando!

# Sunday, March 1

**6:30 AM**

**AASV Student Breakfast**

Location: Great Hall East

**7:00 AM**

**Praise Breakfast** (page 20)

Sponsored by: **STUART PRODUCTS**

Location: Great Hall Center

**Registration Desk open**

Location: Great Hall

**8:00 AM**

**Canadian Swine Veterinarians**

Location: Cambridge (Lobby Level)

## **SEMINARS**

**#7 Piglet Diarrhea** (page 21)

Location: Ireland B

**#8 Biosecurity: Bridging the gap between science and compliance** (page 22)

Location: Scotland B

**#9 Nutrition and Feeding in the Era of PED Virus** (page 23)

Location: Scotland A

**#10 Swine Medicine for Students** (page 24)

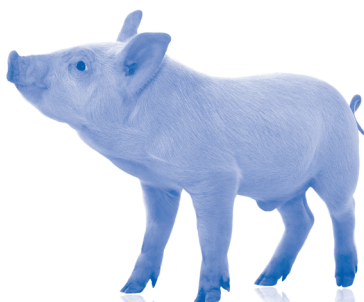
Location: Ireland A

**#11 Boar Stud Health, Biosecurity, and Technology** (page 25)

Location: Scotland C

**RESEARCH TOPICS** (page 26)

Location: England



# Sunday, March 1

## 12:00 PM

### **POSTER SESSION OPEN**

Authors in attendance: 12:00 – 1:00 PM

Location: Events Center

**Veterinary Student Posters** (page 36)

Sponsored by **ZOETIS**

**Research Topics Posters** (page 41)

**Industrial Partners Posters** (page 43)

### **AASV FOUNDATION LUNCHEON**

(Advance registration required)

Location: Ireland C

## 1:00 PM

### **CONCURRENT SESSIONS**

**#1 Student Seminar** (page 28)

Sponsored by **ZOETIS**

Location: Great Hall North

**#2 Industrial Partners** (page 30)

Location: Great Hall Center

**#3 Industrial Partners** (page 32)

Location: Great Hall East/West

**#4 Industrial Partners** (page 34)

Location: England

## 6:30 PM – 8:30 PM

### **WELCOME RECEPTION**

Sponsored by **ZOETIS**

Location: Scotland/England

## 8:30 PM – 11:00 PM

### **STUDENT RECEPTION**

Sponsored by **MERCK ANIMAL HEALTH**

Location: Great Hall North

# Monday, March 2

## 7:00 AM

### **Registration Desk open**

Location: Great Hall

### **Spouse Hospitality Suite open** (page 46)

Location: Veranda (Lobby Level)

## 8:00 AM – 12:30 PM

### **GENERAL SESSION: Beyond Our Oath:**

#### **Integrity, Intensity, Professionalism** (page 48)

Location: Great Hall East/West

**Howard Dunne Memorial Lecture:** Dr. Greg Stevenson  
“Because it’s the right thing to do”

**Alex Hogg Memorial Lecture:** Dr. C. Scanlon Daniels  
“Influence and advocacy: Opportunities for swine veterinarians”

## 9:00 AM – 5:00 PM

### **COMMERCIAL TECHNICAL TABLES** (page 8)

Location: Events Center

## 12:30 PM

### **LUNCHEON**

Sponsored by **BOEHRINGER INGELHEIM VETMEDICA INC.**

Location: Empire Ballroom

## 2:00 – 5:30 PM

### **CONCURRENT SESSIONS**

**#1 Managing Enteric Coronaviruses at the Farm Level**  
(page 49)

Location: Great Hall North

**#2 Animal Welfare** (page 50)

Location: Great Hall Center

**#3 Significant Swine Disease Topics** (page 51)

Location: Great Hall East/West

## 6:30 PM – 8:30 PM

### **AASV AWARDS RECEPTION**

Sponsored by **ELANCO ANIMAL HEALTH**

Location: Empire Ballroom

**AASV FOUNDATION AUCTION** (page 47)

Empire Ballroom

# Tuesday, March 3

**7:00 AM**

**Registration Desk open**

Location: Great Hall

**BREAKFAST and AASV ANNUAL BUSINESS MEETING**

Location: Scotland

**8:00 AM – 12:00 PM**

**GENERAL SESSION**

**Transboundary or FAD: What difference does it make?**  
(page 52)

Location: Great Hall North/Center

**8:00 AM – 12:00 PM**

**COMMERCIAL TECHNICAL TABLES** (page 8)

Location: Events Center

**12:00 PM**

**MEETING CONCLUDES**

*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 47<sup>TH</sup> Annual Meeting

February 27 - March 1, 2016

Hyatt Regency New Orleans  
NEW ORLEANS,  
LOUISIANA



2017 Denver Feb 25 - 28

2018 San Diego Mar 3 - 6

2019 AASV's 50th Anniversary!  
Location to be announced

# Thank you!

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

**BOEHRINGER INGELHEIM VETMEDICA, INC**  
AASV Luncheon

**CEVA ANIMAL HEALTH**  
Refreshment Break Sponsor

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AASV Awards Reception  
AASV Foundation Veterinary Student Scholarships

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**MERCK ANIMAL HEALTH**  
Student Reception

**NEWPORT LABORATORIES**  
Veterinary Student Travel Stipends  
Veterinary Student Poster Awards  
Refreshment Break Sponsor

**STUART PRODUCTS**  
Praise Breakfast

**ZOETIS**  
Welcome Reception  
AASV Student Seminar and Student Poster Session  
AASV Foundation Veterinary Student Scholarships