Evidence-based Practice: How do we get there?

AASV 42nd Annual Meeting Program

March 5 – 8, 2011
Pointe Hilton Tapatio Cliffs Resort
Phoenix, Arizona
Welcome to the great Southwest and the city of Phoenix!

This year’s meeting venue promises to provide a great mixture of warm weather, exciting attractions and continuing education. This is a perfect year to bring the whole family and enjoy the relaxing amenities of the hotel and many attractions in the greater Phoenix area. Besides wonderful weather, there are museums, botanical gardens, golf courses and a fabulous zoo for you and your family to enjoy.

The theme for this year’s annual meeting “Evidence-based Practice: How do we get there?” is designed to build on last year’s theme of “Implementing Knowledge.” The workshops, keynotes and concurrent sessions will introduce you to opportunities to obtain scientific knowledge from well-designed studies to help you in your decision-making processes. The Howard Dunne Lecturer, Dr Locke Karriker, will speak on the theme topic and provide insight into how swine veterinarians can use evidence-based medicine on a daily basis. The Alex Hogg Lecture will be presented by Dr Joe Conner. He has been tasked with the job of drawing on his practice experience and the use of science in practice. He will give you an idea what barriers you might encounter when balancing experiential knowledge with information from scientific studies.

The Monday morning session will continue with Dr Anna Johnson speaking on animal welfare. A world-renowned leader in science-based studies on animal welfare, Dr. Johnson will bring us up-to-date on what is known on this topic. We will conclude the Monday morning session with Dr Wes Jamison’s presentation on political advocacy and how activists are attacking our industry. Monday afternoon
concurrent sessions are designed to allow you to focus on breeding herd, grow-finish or pig wellbeing topics. Each of the session chairs and their committees have done an excellent job assembling topics and speakers.

Do not forget about the pre-conference workshops and the Student Seminar on Saturday and Sunday. There are some very good workshops that provide in-depth information on the topic of your choice. In addition, the Research Topics session has been moved to Sunday morning. The student session on Sunday afternoon showcases the future of our profession. The Industrial Partners sessions allow our swine industry companies to showcase some of their products and field trials.

On Monday evening, we will gather to honor our award winners and to participate in the AASV Foundation Auction. The auction is a very important fundraiser, and enables the foundation to continue the financial support it provides for our students, research and other activities.

We have truly saved some of the best for last. Tuesday morning is totally dedicated to the PRRS virus and its elimination. Book your airline ticket to leave well after the Tuesday morning session. You do not want to miss the important information that will be presented in this session!

It has been an honor and humbling experience to be the Program Chairman for this meeting. You truly learn the value of the program committee and our AASV staff as you work through the process of planning this meeting. I would like to thank each member of the committee for their input and work in making this a successful meeting for our organization. I would also like to thank Drs. Burkgren, Schulteis and Snelson for their hard work and commitment to this organization.

Thank you and hope to see you in Phoenix!

Randy Jones
Program Chair
Planning committee

Randy Jones, Chair
Glen Almond
Butch Baker
Mary Battrell
David Baum
Egan Brockhoff
Tara Donovan
Luc Dufresne
Tom Gillespie
Howard Hill
Marlin Hoogland
Jeff Kaisand
Bill Minton
Simone Oliveira
Dale Polson
Sarah Probst Miller
Paul Ruen
Alan Scheidt
Lisa Tokach
Montse Torremorell
Rick Tubbs
Matthew Turner
John Waddell
Spencer Wayne
Warren Wilson
Paul Yeske
Registration and fees

Registration

Registration desk located in Grande Ballroom Foyer
Saturday, March 5   7:00 AM – 5:00 PM
Sunday, March 6    7:00 AM – 5:15 PM
Monday, March 7    7:00 AM – 5:30 PM
Tuesday, March 8   7:00 AM – 12:00 PM

Fees

Register online at www.aasv.org/annmtg
AASV member pre-registration  $300
AASV member registration after Feb. 11  $335
Nonmember veterinarian registration  $420
Add’l Tech Table representatives (limit 3)  $420

Meeting Hotel

Pointe Hilton Tapatio Cliffs Resort
11111 North 7th Street
Phoenix, AZ 85020
Tel: 602-866-7500
Fax: 602-866-6347

Continuing Education Credit

Up to twenty (20) credit hours of veterinary continuing education are available from 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.

Please turn off your cell phone or switch to silent mode during scientific sessions
President
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Iowa State University
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Tel: 515-294-9358
E-mail: rbbaker@iastate.edu
<table>
<thead>
<tr>
<th>District</th>
<th>Name</th>
<th>Address</th>
<th>City, State, Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. William Minton</td>
<td>108 West Franklin Street Chickasaw, OH 45826</td>
<td>USA</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Matthew Turner</td>
<td>4651 Taylors Bridge Hwy PO Box 438 Clinton, NC 28329</td>
<td>USA</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Bill Starke</td>
<td>12200 NW Ambassador Ste 225 PO Box 20044 Kansas City, MO 64195</td>
<td>USA</td>
</tr>
<tr>
<td>4</td>
<td>Dr. John Baker</td>
<td>8866 Telephone Road Chandler, IN 47610</td>
<td>USA</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Doug Groth</td>
<td>Carthage Veterinary Service Ltd. PO Box 220 Carthage, IL 62321</td>
<td>USA</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Kent Schwartz</td>
<td>Veterinary Diagnostic Laboratory Iowa State University CVM Ames, IA 50011</td>
<td>USA</td>
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<tr>
<td>7</td>
<td>Dr. William DuBois</td>
<td>628 Elder Lane Mustang, OK 73064 USA</td>
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<tr>
<td>8</td>
<td>Dr. Brian Schantz</td>
<td>304 Wakefield St PO Box 687 Laurel, NE 68745 USA</td>
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<tr>
<td>9</td>
<td>Dr. Nathan Winkelman</td>
<td>205 9th Ave NE Rice, MN 56367 USA</td>
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<tr>
<td>10</td>
<td>Dr. Alberto Stephano</td>
<td>Villa De Guadalupe 234 Villas Del Campestre Leon, GTO 37129 MEXICO</td>
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<tr>
<td>11</td>
<td>Dr. S. Ernest Sanford</td>
<td>252 Concord Road London, ON N6G 3H8 CANADA</td>
<td></td>
</tr>
</tbody>
</table>
Technical Tables

Location: Grande Ballroom GHIJ
Monday, March 7  9:00 AM – 5:00 PM
Tuesday, March 8  8:00 AM – 12:00 PM

Academy of Rural Veterinarians
ADM Alliance Nutrition
Allflex USA
Alltech
Alpharma, LLC
APC
ARKO Laboratories
Automated Production Systems
AVMA PLIT
Bayer Animal Health
Best Vet Solutions/CID Lines
Boehringer Ingelheim
CHR Hansen
Danbred North America
Destron Fearing
DeWaay Capital Management
Elanco
Fast Genetics
Feedstuffs
Gallant Custom Laboratories
Genetiporc
GlobalVetLink
Harris Vaccines
Hermitage NGT
Hipra
IDEXX
IMV Technologies
ITL Animal Healthcare
Intervet/Schering-Plough
Technical Tables

IVESCO
Kemin Industries
Life Technologies
Minitube of America
MVP Laboratories
MWI Veterinary Supply
National Pork Board
National Pork Producers Council
Nedap Agri North America
Neogen Corporation
Newport Laboratories
Newsham Choice Genetics
Norsvin
Novartis Animal Health US
Novus International
Pfizer Animal Health
Phibro Animal Health
PIC
PigCHAMP
PigKnows
Preserve International
Prima Tech
PureTek Genetics
Ralco
ReproQuest/Continental Plastic
Stuart Products
TechMix
Tetracore
Trouw Nutrition USA
USDA APHIS Veterinary Services
Veterinary Sales & Service
Zinpro Performance Minerals
Saturday, March 5, 2011

Web-based PRRS Risk Assessment Training for the Breeding Herd

Date: Saturday, March 5, 2011
Time: 7:30 AM – 12:30 PM
Location: Grande Ballroom B
Fee: No charge
Limit: 20 participants, AASV members only
Coordinator: Derald Holtkamp

Description:

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 has improved access, ease of use, and the ability 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 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</th>
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<tbody>
<tr>
<td>7:30</td>
<td>Welcome and introductions (note the early start time!)</td>
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<tr>
<td></td>
<td>Derald Holtkamp</td>
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<tr>
<td>7:45</td>
<td>Application of PRRS Risk Assessment</td>
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<tr>
<td></td>
<td>Egan Brockhoff</td>
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<tr>
<td>8:00</td>
<td>Overview of PRRS Risk Assessment</td>
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<td></td>
<td>Dale Polson</td>
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<tr>
<td>8:45</td>
<td>“How to” Tour of PADRAP</td>
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<td></td>
<td>Changing site admin profile, creating a new production system, setting</td>
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<td></td>
<td>up a site and survey, navigating through a survey, duplicating and</td>
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<td></td>
<td>taking multiple surveys</td>
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<td></td>
<td>Chris Mowrer</td>
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<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>
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<tr>
<td></td>
<td>Dale Polson</td>
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<tr>
<td>12:00</td>
<td>Demonstration of pareto chart and the database and benchmarking tool</td>
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<tr>
<td></td>
<td>for risk assessment data: Interpreting results</td>
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<tr>
<td></td>
<td>Derald Holtkamp</td>
</tr>
<tr>
<td>12:30</td>
<td>Training concludes</td>
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</table>
### Seminar Description:

The objective of this year’s diagnostics seminar is to update swine veterinarians on the latest news in development, validation, and field applications of NEW diagnostic tests. Key diagnosticians from Iowa State University, Minnesota, and South Dakota diagnostic laboratories will share the newest technologies available to address the most recent challenges faced by today’s swine industry. Three field veterinarians who have applied such innovative technologies will join the diagnosticians to share their experiences with these new methods and tests under field conditions. This section will address evidence-based medicine from two important perspectives: laboratory and field.

#### 1:00
- New developments in oral fluid testing
  - Jeff Zimmerman

#### 1:30
- Field experiences with oral fluid PCR and serology for viral and bacterial pathogens
  - Luc Dufresne

#### 2:00
- New testing algorithms and development of multiplex assays for swine influenza diagnostics
  - Jane Christopher-Hennings

#### 2:30
- Field experiences with swine influenza in Hutterite colonies in South Dakota
  - Monte Fuhrman

#### 3:00
- BREAK

#### 3:30
- Diagnostics of peri-weaning failure to thrive syndrome
  - Kurt Rossow
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
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<tbody>
<tr>
<td>4:00</td>
<td>Field experiences with peri-weaning failure to thrive syndrome: Clinical case</td>
<td>Mike Eisenmenger</td>
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<tr>
<td>4:30</td>
<td>Validation of FTA paper for PRRS virus diagnostics</td>
<td>Montse Torremorell</td>
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<tr>
<td>5:00</td>
<td>Seminar concludes</td>
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</tbody>
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Seminar 2

Alternative (Opportunity?) Feed Ingredients in Swine Diets

Date: Saturday, March 5, 2011
Time: 1:00 – 5:00 PM
Location: Grande Ballroom E
Fee: $90.00
Seminar chair: Harold Tilstra

Seminar Description:

The pork industry has become quite skillful at using dried distillers grains with solubles in pig diets. That experience may have increased awareness of other ingredient possibilities. There are ingredients from other grain-processing industries as well as locally available ingredients that may provide individual opportunity feeding possibilities. Also, the bio-fuels industry is trending towards further bio-refinements that change the nutritional profiles of the remaining feed ingredients. There are ingredient possibilities that literally reach from “a” to “z”: alfalfa meal to zein protein. Even though the probability of a specific ingredient’s use may vary, it is very likely that swine veterinarians will encounter production situations and/or producer questions relating to the use of some type of alternative ingredient. This seminar will provide information about maximizing the benefits and avoiding the pitfalls of using alternative ingredients in swine diets.

1:00  What does a swine veterinarian “need” to know about alternative ingredients?
      Joel DeRouchey

1:45  Do I have to compromise performance when I feed alternative ingredients?
      John Patience

2:30  BREAK

3:00  Doc, can I feed __________ to my pigs?
      Robert Fischer

3:45  Energy and nutrient concentration and digestibility in alternative feed ingredients and recommended inclusion rates
      Hans Stein
Seminar 2

4:30 Roundtable Q & A
5:00 Seminar concludes
Seminar 3

“We the jury…” Seeking, interpreting, and using the evidence of trial data

Date: Saturday, March 5, 2011
Time: 1:00 – 5:00 PM
Location: Grande Ballroom H
Fee: $90.00
Seminar chair: Spencer Wayne

Seminar Description:

Making decisions by gut feelings? Want your decisions to be guided more by evidence and less by opinions?

The seminar will start out by refreshing your understanding of what numbers mean (interpreting P-values, confidence intervals, and power-analysis). After re-establishing your footing in stats, we move into field trial design from the perspectives of both a field practitioner deriving knowledge for clients’ needs and a system research director discussing how to arrive at a verdict on current pork-production practices and products through the use of commercial research barns. Discussion will be focused on commercial trial evaluations with an understanding of setting up objectives, treatment design, randomization activities, data interpretation and how to work through unexpected events during a trial. We’ll utilize an interactive approach, working through 2 or 3 examples of setting up a trial barn based on objectives, study design, and required methodology. Examples will include blocking trials based on weaning events as well as in litter-based trials. Finally, we’ll get an inside view of how commercial product research is designed, executed, evaluated, presented, and otherwise used. Here we’ll outline the span of clinical studies from discovery to the development process for biologics and pharmaceuticals; with a discussion of USDA/FDA requirements for licensure, the statistical methods implemented, etc.

Seminar participants will leave with a deepened appreciation and understanding of how evidential data can and should guide a decision-making process.
1:00  Can we believe the result: Basic statistical concepts for study design and interpretation  
      Peter Davies

1:45  How to do trials in the field and get good information  
      Paul Yeske

2:30  BREAK

3:00  The truth on our own terms – best utilization of research barns  
      Laura Greiner

3:45  What’s behind your bottles? General licensing requirements in the United State for veterinary biologics  
      Paul Dorr

4:30  Roundtable Q & A

5:00  Seminar concludes
Communicating Using Social Media

Date: Saturday, March 5, 2011  
Time: 1:00 – 5:00 PM  
Location: Grande Ballroom J  
Fee: $90.00  
Seminar chair: Lisa Tokach

Seminar Description:

Does the thought of online social networking send shivers down your spine? Would you like to learn more about how to jump on the social media bandwagon and use social media for marketing purposes? If your answer is “yes,” come join Brenda Tassava, a certified veterinary practice manager and social media enthusiast to get started.

Speaker: Brenda Tassava

1:00 Using social media appropriately
Social media calls for a whole new approach to media and the Internet, not just for you and your practice but also for your staff. This means creating a policy that makes sense, as well as training your staff to use social media appropriately. This session will cover example policies, best practices, as well as a formula for training your team in a staff meeting setting. Have a staff that embraces social media concepts? I’ll introduce you to a tool that enhances your internal team communications, using a social media format.

2:45 BREAK

3:15 Social media marketing for your veterinary practice
Social media marketing is a necessity in today’s world. This session will cover the ways the world has changed very quickly in the past 5 years, which has led to a need to market veterinary practices differently. Social media isn’t just about Twitter and Facebook. Your practice needs a strategy, but first you need to fully understand what social media is, and best practices for its use, then we’ll walk through building your practice’s social media strategy.

5:00 Seminar concludes
Seminar 5

AASV’s Got Talent (Practice Tips)

Date: Saturday, March 5, 2011  
Time: 1:00 – 5:00 PM  
Location: Grande Ballroom Gl  
Fee: $75.00  
Seminar chair: Jeff Harker

Seminar Description:

Who says you can’t learn while having fun? This session, while entertaining and competitive, will also provide valuable information for attendees only. The busy practitioners in this session have not been required to write papers so you’ll have to pay attention and take notes! There will be no celebrity judges, just voting by those in attendance for the “people’s choice” best tip award. This group represents a wide range of experience and proves that “AASV’s Got Talent.”

1:00
Daryl Olsen
Ian Levis
Mary Battrell
Mike Pierdon
Nathan Winkelman
Greg Wideman
Aaron Lower
Craig Rowles

2:30
BREAK

3:00
Steve Henry
Pete Thomas
Pablo Moreno
Amber Stricker
Egan Brockhoff
Clark Huinker
Max Rodibaugh

5:00
Seminar concludes
Sunday, March 6

**Time:** 7:00 – 8:00 AM  
**Location:** Grande Ballroom E  
**Coordinator:** Dave Smidt  
**Co-Sponsored by:** Newsham Choice Genetics

For many, Sunday is a day to gather with family and friends for spiritual nourishment and encouragement in faith. So bring your family and join your AASV friends for a devotion, music, and fellowship at the AASV Prayer Breakfast!

Dr. Tom Gillespie will provide a brief devotion while you enjoy breakfast. Then, join in musical worship led by the members of the praise and worship band: Drs. Monte Fuhrman, Harold Tilstra, and Tom Wetzell.

Your free-will offering, along with support from Newsham Choice Genetics, 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!*
Seminar Description:

This seminar will focus on the latest, up-to-date information on new tools and technology for improving boar and sow reproductive performance. Speakers will address boar productivity, semen quality, semen use, insemination protocols, reproductive pharmacology, diagnostic ultrasound and reproductive pathology.

8:00  Insemination technologies: Science in practice
      Chris Kuster

8:55  Inducing estrus and controlling ovulation:
      How and why?
      Roy Kirkwood

9:50  BREAK

10:10  Current and new applications for diagnostic ultrasound in female and male swine reproduction
       Johannes Kauffold

11:15  Reproductive pathology
       Kurt Rossow

12:00  Seminar concludes
Case Studies from the “Young Guns of the AASV”

Date: Sunday, March 6, 2011
Time: 8:00 AM – 12:00 PM
Location: Grande Ballroom F
Fee: $90.00
Seminar chair: John Waddell

Seminar Description:

This year’s case study seminar will be presented through the eyes of AASV’s “young guns.” Being recent grads, they look at health and production challenges through a fresh set of eyes, and cases that may have become mundane to the seasoned practitioner are “new and exciting” to these guys. This session promises to be a quick-hitting series of case presentations that will certainly provide some nuggets to recent grads as well as “old dogs.” Come, see, and be challenged!

8:00 Introduction

8:10 A case of severe porcine respiratory disease complex (PRDC) in an open-market scenario
Mitch Christensen

8:30 Evaluation of sudden death in finishing pigs
Jason Kelly

8:50 Case study: Mycoplasma hyopneumoniae on a farrow-to-finish farm
Seth Krantz

9:10 Break

9:20 A case of vitamin D deficiency leading to severe hypocalcemia in growing pigs
Brad Leuwerke

9:40 Nursery mortality associated with a virulent Streptococcus suis infection
Aaron Lower
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:00</td>
<td>BREAK</td>
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</table>
| 10:30 | Assessing the causes of pre-weaning mortality: A case study  
      | Amanda Ness                                 |
| 10:50 | Investigation of a potential zoonotic case of H3N2 swine influenza virus  
      | Mike Pierdon                                |
| 11:10 | BREAK                                       |
| 11:20 | Transient clinical porcine circovirus type 2 in a commercial sow farm  
      | Michelle Sprague                            |
| 11:40 | Case study of lameness in wean-to-market pigs  
      | Jason Verbeck                               |
| 12:00 | Seminar concludes                           |

**Alltech Luncheon**
Sunday Luncheon  
Sponsored by:  
ALLTECH  
Sunday, March 6th  
12:00 – 1:00 PM  
Location: Highland Center

**AASV Foundation Luncheon**
AASV Foundation Luncheon  
Sunday, March 6th  
12:00 – 1:00 PM  
Location: Courtroom MN (2nd level)  
(Pre-registration required)
Seminar 8

Driving Change

Date: Sunday, March 6, 2011
Time: 8:00 AM – 12:00 PM
Location: Grande Ballroom Gl
Fee: $90.00
Seminar co-chairs: Dale Polson & Bill Minton

Seminar Description:

The goal of this seminar is to provide an understanding of the necessary ingredients for driving change at the business organizational and industry levels, as well as an appreciation for the inevitable challenges, costs, and risks that go along with such change-management efforts.

8:00 Welcome

8:15 The process part of the change equation: What methods, tools, skills and experience does it take to drive change?
Ryan Bracken

10:00 BREAK

10:15 The people part of the change equation: What does it take to achieve buy-in and willing participation in driving change?
Carl Aspler

12:00 Seminar concludes
“Young Guns”

Date: Sunday, March 6, 2011  
Time: 8:00 AM – 12:00 PM  
Location: Grande Ballroom H  
Fee: $90.00; No charge for veterinary students or 2009 or 2010 DVM graduates  
Seminar co-chairs: Brian Payne & Larry Firkins

Seminar Description:

The theme is focused on veterinary students and recent graduates. This year we will continue with the most requested item from the past: an interactive case study. We will also have seasoned veterinarians discuss what it takes to be a successful veterinarian. Ethics (specifically related to being a swine vet), finances and key tips will all be addressed. Interaction with the presenters will be an important part of the seminar.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Fundamentals of finance</td>
<td>Larry Firkins</td>
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<tr>
<td>8:45</td>
<td>Ethical dilemma resolution in practice</td>
<td>David Reeves</td>
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<tr>
<td>9:30</td>
<td>BREAK</td>
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<tr>
<td>9:45</td>
<td>Case study</td>
<td>Angie Supple</td>
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</tbody>
</table>
| 11:00 | To: students  
Subject: U hav 2 no this  
Monte Fuhrman |                         |
| 11:45 | Roundtable Q & A                 |                         |
| 12:00 | Seminar concludes                |                         |
### Research Topics

**Date:** Sunday, March 6, 2011  
**Time:** 8:00 AM – 12:00 PM  
(Note, this is a morning session!)  
**Location:** Grande Ballroom J  
**Session chair:** Montse Torremorell

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Swine influenza active surveillance in the United States</td>
<td>Cesar Corzo</td>
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<tr>
<td>8:15</td>
<td>The disease ecology of influenza virus in swine breeding farms</td>
<td>Matt Allerson</td>
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<tr>
<td>8:30</td>
<td>Transmission patterns of influenza virus in vaccinated and non-vaccinated pig populations</td>
<td>Anna Romagosa</td>
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<tr>
<td>8:45</td>
<td>Influenza antibody detection over time using the novel NP multispecies ELISA assay</td>
<td>Christa Irwin</td>
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<tr>
<td>9:00</td>
<td>Detection of influenza virus in air from artificially generated aerosols and experimentally infected pigs</td>
<td>Cesar Corzo</td>
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<tr>
<td>9:15</td>
<td>Detection of swine influenza virus in oral fluids at pen level in pig populations</td>
<td>Anna Romagosa</td>
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<tr>
<td>9:30</td>
<td>Oregano essential oil improves sow and piglet performance - a summary of three field investigations</td>
<td>Marnie Mellencamp</td>
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<td>9:45</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>10:15</td>
<td>Spread of <em>Lawsonia intracellularis</em> in a pure culture seeder pig challenge study</td>
<td>Dana Beckler</td>
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</tbody>
</table>
10:30 The impact of air filtration on PRRS control in 7 breeding herds from a commercial system of swine production
Gordon Spronk

10:45 Porcine peri-weaning failure to thrive syndrome (PFTS), Part III: Intestinal function and morphoogy
Adam Moeser

11:00 PCV2 vaccination prevented clinical PCVAD and reduced PCV2 viremia and virus shedding in semen of boars concurrently infected with PCV2b and Mycoplasma hyopneumoniae
Tanja Opriessnig

11:15 Evaluation of FTA cards as a tool to submit samples for PRRSv diagnostics
Daniel Linhares

11:30 Porcine reproductive and respiratory syndrome virus (PRRSV) in serum and oral fluid samples from individual boars: Will oral fluid replace serum for PRRSV surveillance?
Apisat Kittawornrat

11:45 Development of a novel universal and species-specific Haemophilus parasuis ELISA test
Nubia Macedo

5:00 Session concludes

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**Student Reception**

Sponsored by:
INTERVET/SCHERING-PLOUGH
ANIMAL HEALTH

Sunday, March 6th
8:30 – 11:00 PM
Location: Grande Ballroom
Sunday Concurrent Session #1

Student Seminar

Date: Sunday, March 6, 2011  
Time: 1:00 – 5:15 PM  
Location: Grande Ballroom ABE  
Session co-chairs: Peter Davies & Alex Ramirez

Sponsored by Alpharma, LLC

1:00  Comparison of PCR data for pre-wean pooled-serum to post-wean oral fluid for porcine reproductive and respiratory syndrome virus monitoring in sow farms  
Paul Thomas, Iowa State University

1:15  PRRS diagnostics: Correlation of serum, tonsil scrapings, and oral fluids in growing gilts with natural exposure  
Deanne Day, Iowa State University

1:30  Survey of transport vehicle decontamination practices for PRRSv in the swine industry  
Peter Schneider, Iowa State University

1:45  Evaluation of a novel electrocution device in swine from birth to fifteen pounds  
Jessica McKinney, University of Illinois

2:00  Salmonella environmental contamination assessment in a commercial swine nursery barn  
Anna Massie, University of Illinois

2:15  Validation of Swiffer® cloth-origin neutralizing broth samples for detection of PRRS virus in the environment  
Kristy Kenney, North Carolina State University

2:30  Identification of a new potentially virulent Brachyspira species affecting swine  
Alexander Primus, University of Minnesota

2:45  BREAK
Detection of ceftiofur and oxytetracycline in oral fluids of swine with a pen-side competitive ELISA test after intramuscular injection
Allison Meiszberg, Iowa State University

Use of Ingelvac® PRRS MLV to stabilize a farrow-to-finish herd dually infected with both NA and EU PRRS field strains
Britni Miller, University of Illinois

Genetic diversity of porcine reproductive and respiratory syndrome virus in Pennsylvania herds
Andrew Stas, University of Pennsylvania

Optimization of an antibiotic sensitivity assay for *Mycoplasma hyosynoviae* and susceptibility profile of recent field isolates
Kimberly Schultz, Iowa State University

Characterization of antimicrobial resistance of *Salmonella* isolates from swine under varying ceftiofur use
Marlena McCarty, The Ohio State University

Feasibility of oral fluids for detection of antibody response to porcine parvovirus, Leptospira, swine influenza, *Lawsonia*, or *Salmonella* in adult swine
Jeremy Johnson, Iowa State University

Pen-based oral fluid sampling for PRRSV using an improved PRRSV PCR assay is highly effective for the detection of virus in low prevalence populations
John Prickett, Iowa State University

Characterization and quantification of risks related to exhibition pigs in a PRRS area-region control & elimination project
Jordan Graham, Iowa State University

Session concludes
Sunday Concurrent Session #2

Industrial Partners

Date: Sunday, March 6, 2011  
Time: 1:00 – 5:00 PM  
Location: Grande Ballroom CDF  
Session co-chairs: Brad Thacker & Dan McManus

1:00 Differences in efficacy of various formulations of oral and injectable vitamin E products in newly weaned pigs  
Presenter: Robert Stuart  
Sponsor: STUART PRODUCTS

1:15 Genomic markers associated with disease tolerance in swine  
Presenter: Archie Clutter  
Sponsor: NEWSHAM CHOICE GENETICS

1:30 Checkerboard analysis of in vitro activity of florfenicol with other antimicrobials  
Presenter: Timothy Kniffen  
Sponsor: INTERVET/SCHERING-PLOUGH ANIMAL HEALTH

1:45 Circumvent® PCV PLUS: A new approach for PCV2 vaccination  
Presenter: Brad Thacker  
Sponsor: INTERVET/SCHERING-PLOUGH ANIMAL HEALTH

2:00 Circumvent® PCV M: A new tool for combination PCV2 and Mycoplasma hyopneumoniae vaccination  
Presenter: Karen Lehe  
Sponsor: INTERVET/SCHERING-PLOUGH ANIMAL HEALTH

2:15 Addressing pre-weaning mortality  
Presenter: Juan Carlos Pinilla  
Sponsor: PIC
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>2:30</td>
<td>Improving fertility through reciprocal translocation identification</td>
<td>Amanda Williams</td>
<td>PIC</td>
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<tr>
<td>2:45</td>
<td>BREAK</td>
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<tr>
<td>3:15</td>
<td>Elimination of PRCV and H3N2 swine influenza virus from a production</td>
<td>Manon St-Hilaire</td>
<td>GENETIPORC</td>
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<td>network using a 4-week batch farrowing system</td>
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<tr>
<td>3:30</td>
<td>Revisiting creep feeding</td>
<td>Dan McManus</td>
<td>LAND O’LAKES PURINA FEED</td>
</tr>
<tr>
<td>3:45</td>
<td>Aerosolization and detection of porcine reproductive and respiratory</td>
<td>Tom Duinhof</td>
<td>DUTCH ANIMAL HEALTH SERVICE</td>
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<td>syndrome virus (PRRSV) under different climatic conditions</td>
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<tr>
<td>4:00</td>
<td>PRRS-free herd certification: Description of a western Canada</td>
<td>Leigh Rosengren</td>
<td>SASKATCHEWAN PORK DEVELOPMENT BOARD</td>
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<td>pilot project</td>
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<tr>
<td>4:15</td>
<td>Benefits of combined <em>Mycoplasma hyopneumoniae</em> and PCV2 vaccination</td>
<td>Hanne Bak</td>
<td>BOEHRINGER INGELHEIM VETMEDICA</td>
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<tr>
<td>4:30</td>
<td>Comparative injection site reactivity of one- and two-dose PCV2-Mhyo</td>
<td>Angela Baysinger</td>
<td>BOEHRINGER INGELHEIM VETMEDICA</td>
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<td>vaccine mixtures</td>
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Continued next page
Observations of sustained PRRS control by modified-live vaccination of sows and pigs

Presenter: Edgar Diaz
Sponsor: BOEHRINGER INGELHEIM VETMEDICA

Session concludes
**Sunday Concurrent Session #3**

### Industrial Partners

**Date:** Sunday, March 6, 2011  
**Time:** 1:00 – 4:45 pm  
**Location:** Grande Ballroom GI  
**Session co-chairs:** Greg Armbruster & Eva Jablonski

1:00  
**Evaluation of an avirulent live *Haemophilus parasuis* vaccine in commercial nurseries**  
**Presenter:** Douglas Stine  
**Sponsor:** NEWPORT LABORATORIES

1:15  
**Dynamics of *Lawsonia intracellularis* shedding and seroconversion in a mid-finishing challenge model**  
**Presenter:** Greg Armbruster  
**Sponsor:** ELANCO ANIMAL HEALTH

1:30  
**New possibilities in *Mycoplasma hyopneumoniae* diagnostic testing**  
**Presenter:** Erin Strait  
**Sponsor:** ELANCO ANIMAL HEALTH

1:45  
**MJ PRRS vaccine: Field efficacy**  
**Presenter:** Patrick Graham  
**Sponsor:** MJ BIOLOGICS

2:00  
**Effect of including Cel-Can® , an enzymatically hydrolyzed yeast product, in sow diets on pig birth weight**  
**Presenter:** Merlin Lindemann  
**Sponsor:** NUTRIQUEST

2:15  
**Benefits of fixed-time breeding protocols**  
**Presenter:** Louisa Zak  
**Sponsor:** BIONICHE ANIMAL HEALTH

2:30  
**Focusing nutrition on animal health: Can novel anti-infective agents support sustainability goals?**  
**Presenter:** Aidan Connolly  
**Sponsor:** ALLTECH

2:45  
**BREAK**

*Continued next page*
Impact of managing gilt service interval on gilt performance
Presenter: Sasha Gibson
Sponsor: PigCHAMP

Effect of feeding one or two pulses of Aureomycin® chlortetracycline on the performance and health of grower-finisher pigs
Presenter: Eva Jablonski
Sponsor: ALPHARMA, LLC

Justifying longer duration uses of tetracyclines, penicillins and sulfonamides in feeds and water: A summary of US usage and resistance patterns
Presenter: Jeremy Mathers
Sponsor: ALPHARMA ANIMAL HEALTH

Practical review of reproductive testis pathology in the boar
Presenter: Juan Luis Ubeda
Sponsor: MAGAPOR

Shed/spread and reversion to virulence studies of an SIV RNA vaccine in pigs and mice
Presenter: Kurt Kamrud
Sponsor: HARRISVACCINES

Swine influenza in Europe: An update on epidemiological data and diagnosis
Presenter: Thais Vila
Sponsor: MERIAL

Session concludes
**Industrial Partners**

**Date:** Sunday, March 6, 2011  
**Time:** 1:00 – 5:00 PM  
**Location:** Grande Ballroom HJ  
**Session co-chairs:** Mike Senn & Brad Gramm

**1:00**  
Identification, differentiation, and evaluation of *Streptococcus suis* isolates obtained from clinical cases for autogenous vaccine production  
**Presenter:** Boh Chang Lin  
**Sponsor:** MVP LABORATORIES

**1:15**  
The role of reproductive technologies in genetic improvement at the commercial level  
**Presenter:** John Sonderman  
**Sponsor:** DANBRED NORTH AMERICA

**1:30**  
Immunogenicity and safety of a single-dose chimeric PCV1/2 vaccine  
**Presenter:** Greg Nitzel  
**Sponsor:** PFIZER ANIMAL HEALTH

**1:45**  
Comparison of *Mycoplasma hyopneumoniae* vaccination  
**Presenter:** Joe Connor  
**Sponsor:** PFIZER ANIMAL HEALTH

**2:00**  
Excede® for Swine Sterile Suspension for the control of swine respiratory disease (SRD)  
**Presenter:** Michael Senn  
**Sponsor:** PFIZER ANIMAL HEALTH

**2:15**  
A passion for solutions for claw lesions, lameness, longevity and welfare  
**Presenter:** Mark Wilson  
**Sponsor:** ZINPRO CORPORATION

**2:30**  
Pharmacokinetics and tissue distribution of enrofloxacin (Baytril® 100) in swine  
**Presenter:** Mark Papich  
**Sponsor:** BAYER ANIMAL HEALTH

**2:45**  
BREAK

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<th>Time</th>
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<tr>
<td>3:15</td>
<td>Effects of Denagard plus chlortetracycline or oxytetracycline in-feed antimicrobials on growth performance of growing-finishing pigs</td>
<td>Jay Jacela</td>
<td>NOVARTIS ANIMAL HEALTH US</td>
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<tr>
<td>3:30</td>
<td>A comparison of Denagard, Denagard/CTC and Pulmotil on nursery pig growth performance and economic return</td>
<td>Dale Mechler</td>
<td>NOVARTIS ANIMAL HEALTH US</td>
</tr>
<tr>
<td>3:45</td>
<td>Interpreting carbadox susceptibility test results for <em>E. coli</em> and <em>Salmonella</em> bacteria</td>
<td>Brad Gramm</td>
<td>PHIBRO ANIMAL HEALTH</td>
</tr>
<tr>
<td>4:00</td>
<td>Torque teno virus: What we know this year</td>
<td>Rexanne Struve</td>
<td>STRUVE LABS</td>
</tr>
<tr>
<td>4:15</td>
<td>Sample preparation, nucleic acid extraction and real-time PCR amplification of SIV, PCV2 and PRRS in oral fluids</td>
<td>Ricardo Munoz</td>
<td>LIFE TECHNOLOGIES</td>
</tr>
<tr>
<td>4:30</td>
<td>Determination of the effect of a fully oxidized β-Carotene dietary supplement on the immune system and growth performance of weaned pigs</td>
<td>Daniel Hurnik</td>
<td>CHEMAPHOR</td>
</tr>
<tr>
<td>4:45</td>
<td>RNA particle FMDV vaccine proof of concept study in cattle</td>
<td>Kurt Kamrud</td>
<td>HARRISVACCINES</td>
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<td>5:00</td>
<td>Session concludes</td>
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Veterinary Student Posters

Date: Sunday, March 6, 2011
Time: 12:00 PM – 5:00 PM
Authors present: 12:00 – 1:00 PM
Location: Highland Center

Sponsored by Alpharma, LLC

1. Comparison of alternative sample collection methods for PRRS testing
   Jessica Abbott, Iowa State University

2. Comparison of two gilt synchronization protocols
   Kyle Alberti, Virginia-Maryland Regional CVM

3. Evaluating the incidence of pig viremia, antibody response, and virus in colostrum of different parity sows from five farms using PCV2 vaccine
   Natalie Baker, Purdue University

4. Monitoring porcine circovirus 1/2 in pre-suckled piglets from sows vaccinated with Suvaxyn PCV2 - an inactivated chimeric porcine circovirus type 1 – type 2 vaccine
   Natalie Baker, Purdue University

5. Prevalence of PCV2 in the cord blood of newborn pigs in vaccinated farms
   Natalie Baker, Purdue University

6. Development of a novel real-time paradigm for monitoring E. coli O157:H7: Photonic growth patterns of bioluminescent E. coli O157 transformed with two unique plasmids
   Joshua Barker, Mississippi State University

7. A comparison of three diagnostic techniques to measure porcine IgG and the effects of passive immunity level on vaccine response to porcine circovirus type 2 and M. hyopneumoniae vaccination at weaning
   Paisley Canning, University of Guelph

Continued next page
Field evaluation of an avirulent live *Haemophilus parasuis* vaccine  
*Joshua Duff, North Carolina State University*

Management of an outbreak of porcine reproductive and respiratory syndrome (PRRS) in a nursery facility  
*Charlotte Friendship, University of Guelph*

Farm records used as a valuable resource in Victorian piggeries  
*Brianna Groubert, Purdue University*

Use of Ingelvac® PRRS MLV in a protocol to control and eliminate NA strain of PRRS virus in two large breed to wean sites as part of an area regional control project  
*Abbey Harding, University of Illinois*

Evaluation of a shoulder decubital ulcer treatment method in sows  
*Amber Hazel, University of Minnesota*

Eliminating PCV2 viremia in neonatal pigs through vaccination of the replacement gilts  
*Becky Hobson, Iowa State University*

Penetrating vs. non-penetrating captive bolt euthanasia in nursery pigs  
*Jared Jacobson, Iowa State University*

*Actinobaculum suis* tube agglutination titer and production parameters of sows  
*Attila Mihály Kertesz, Szent István University, Budapest*

Correlation of clinical diarrhea, histopathological lesions and diagnostic tests for grow-finish enteritis with a focus on *Brachyspira hyodysenteriae*  
*Hannah Lowe, Virginia-Maryland Regional CVM*

The incidence of scrotal hernias, cryptorchidism, incision complications and impaired growth performance pre-weaning of surgically castrated pigs: An observational study  
*Daren Miller, Purdue University*
18 Producer experiences with electronic sow feeding (ESF)
Gilbert Patterson, University of Pennsylvania

19 Re-evaluation of a low-cost protocol for reducing the risk of aerosol spread of PRRS virus
Andrea Pitkin, University of Minnesota

20 Effect of feeding Saccharomyces cerevisiae to sows on piglet weaning weight
Casey Rabbe, University of Minnesota

21 Performance comparison of the new IDEXX PRRS X3 ELISA with the current 2XR ELISA
Abigail Redalen, University of Minnesota

22 Risk-based surveillance for bacterial respiratory infections in growing pigs
Kristen Reynolds, University of Guelph

23 A comparison of diagnostic sampling procedures for detection of porcine reproductive and respiratory (PRRS) virus infected weaned pigs in endemically infected farms
Elissa Schlueter, University of Minnesota

24 An evaluation of the “Load, Close, and Homogenize” protocol with modified-live vaccination for PRRSv stabilization in 5 breeding herds
Michael Slattery, Iowa State University

25 Rotavirus serogroup prevalence and characterization post dam vaccination in four breeding farms
Chase Stahl, Iowa State University

26 A systematic review of the association between Helicobacter spp. and the development of gastric ulcers in swine
Sarah Taylor, University of Guelph

27 “Gilty secrets”: Preliminary trends from a gilt retention cohort study
Lisa Thompson, North Carolina State University

Continued next page
28  Euthanasia by electrocution in 5 kg to 15 kg nursery pigs  
Evan Van Beusekom, University of Minnesota

29  Automated control and synchronization of gilt inseminations via electronic sow feeding  
Jon Van Blarcom, University of Pennsylvania
Research Topics Poster Session

Date: Sunday, March 6, 2011
Time: 12:00 PM – 5:00 PM
Authors present: 12:00 – 1:00 PM
Location: Highland Center

1. Evaluation of *Brachyspira* species associated with clinical disease for antimicrobial susceptibility using a minimum inhibitory concentration (MIC) method
Kristin Clothier

2. Vaccine failure? Analyses of influenza A vaccine and outbreak viruses in swine
Susan Detmer

3. Genetic and antigenic characterization of recent human-like (δ-cluster) swine influenza virus isolates
Ben Hause

4. The detection of influenza over time by real time PCR in oral fluids from swine challenged with either Ohio '07 H1N1 or Illinois '09 H3N2
Christa Irwin

5. Detection of anti-PRRSV antibodies in oral fluid samples from individual boars using a commercial PRRS ELISA
Apisit Kittawornrat

6. Pig-associated *Lawsonia intracellularis* and PCV2b in on-farm Dipteroid fly stages
Steven McOrist

7. PRRS infection at the time of PCV2 vaccination does not impact vaccine efficacy in conventional pigs
Tanja Opriessnig

8. Safety and efficacy of live attenuated influenza vaccines against pandemic H1N1 in swine
Lindomar Pena

Continued next page
9  Periparturient fecal intestinal parasite egg counts in swine  
Jeremy Pittman

10  Porcine peri-weaning failure to thrive syndrome (PFTS), Part I: Epidemiological studies and antemortem diagnostics  
Jeremy Pittman

11  Porcine peri-weaning failure to thrive syndrome (PFTS), Part II: Gross lesions, histopathology and diagnostic analysis  
Albert Rovira

12  Cross-protection of pigs vaccinated and challenged with delta-1 and delta-2 sub-cluster H1 swine influenza viruses  
Vicki Rapp-Gabrielson

13  Induction of robust antigen-specific IFN-gamma responses in pigs using alphavirus-derived replicon particles  
Brandon Russell

14  Manipulation of commensal gut microbiota as a tool to decrease the effect of respiratory disease in swine  
Kyle Schachtschneider

15  Effect of PCV2 vaccine on carcass composition in two farms with different health status  
Cristina Venegas-Vargas
Industrial Partners Poster Session

Date: Sunday, March 6, 2011  
Time: 12:00 PM – 5:00 PM  
Authors present: 12:00 – 1:00 PM  
Location: Highland Center

1. Albac® vs Stafac®: Effect on performance and carcass characteristics of growing-finishing pigs  
   Presenter: Daniel Nelson  
   Sponsor: ALPHARMA, LLC

2. Pursuing American Board of Veterinary Practitioners (ABVP) certification in Swine Health Management  
   Presenter: Jim Kober  
   Sponsor: AMERICAN BOARD OF VETERINARY PRACTITIONERS

3. Comparison of production parameters and full-valued pigs (FVP) sold between ABF and non-ABF swine herds  
   Presenter: Darwin Kohler  
   Sponsor: BABCOCK GENETICS

4. Additive effects of PCV2 and Lawsonia intracellularis vaccination in a controlled field study  
   Presenter: Xaver Sidler  
   Sponsor: BOEHRINGER INGELHEIM VETMEDICA

5. Estimates of opportunity costs associated with mortality and inadequate growth rates in the US  
   Presenter: John Deen  
   Sponsor: ELANCO ANIMAL HEALTH

6. Determination of the minimum inhibitory concentration of commonly used commercial modified live bacterial vaccines to florfenicol  
   Presenter: Robyn Fleck  
   Sponsor: INTERVET/SCHERING-PLOUGH ANIMAL HEALTH

Continued next page
Industrial Partners Poster Session

7  Bacteriospermia in commercial porcine semen and resistance to antibiotics  
Presenter: Isaac Huerta  
Sponsor: MAGAPOR

8  Effectiveness of varied time and temperature on inactivating PRRS virus in transport vehicles  
Presenter: Bob Thompson  
Sponsor: PIC

9  *In vitro* activity of oregano essential oil against common pig pathogens  
Presenter: Marnie Mellencamp  
Sponsor: RALCO ANIMAL HEALTH

10  Comparison of extended boar semen cooling times for semen packaged in bags and tubes  
Presenter: Kilby Willenburg  
Sponsor: REPROQUEST

11  *Mycoplasma suis*: A re-emerging pathogen in today’s swine industry?  
Presenter: Erin Strait  
Sponsor: VET PROVISIONS
Spouse Hospitality Suite

Monday, March 7

Time: 7:00 – 9:00 AM
Location: Sunrise CD (4th level, main building)

Courteous of AASV, enjoy a continental breakfast with other AASV spouses. Catch up with old friends and make new ones!

Spouse Tour

DESERT ADVENTURE JEEP TOUR

Monday, March 7

Time: 9:00 AM – 12:00 PM
Meet in the resort lobby by 8:45 AM for departure

Fee: $110 per person

Prepare for adventure! A caravan of comfortable four-wheel drive jeeps will pull up to the resort, and your cowboy guide will greet you as you load into the off-road vehicles for a morning of adventure in Arizona’s Sonoran Desert. You will explore an area known for the mystery of its traditions and the majesty of its mountain ranges. This is a time to connect with the land, yourself, and others with whom you will share the intrigue of seeing Arizona up close.

Once on the trail, your cowboy guide will tell tales of the Arizona backcountry and the Indians that once lived there. In the desert, a short guided nature walk will enable you to get up close to Arizona nature. You’ll learn about the numerous uses of the various Sonoran Desert plants – from modern medicine and cosmetology to a food source. Don’t forget to bring your cameras and/or video recorders to take home memories of your Desert Adventure!

The registration fee includes transportation, guided desert tour and nature walk, iced soft beverages and gratuities. Space is limited; pre-registration is required!

Please note, this tour is not recommended for pregnant women or those with orthopedic issues such as back problems.
The AASV Foundation Auction Committee is hot on the trail to auction success in Phoenix! From artwork and décor to enhance your indoor environment to outdoor sporting events, vacations, and hunting and fishing trips, this year’s fundraising auction has something for everyone to bid on! We offer sincere thanks to our many generous donors! Check out the item listing in the printed auction catalog or online at www.aasv.org/foundation, and prepare to bid!

Since all of the items are donated, you can bid generously, knowing that the full amount of your bid will go directly to support AASV Foundation programs, including funding for swine research, scholarships, swine externship grants, annual meeting travel stipends for students, and more!

**Silent Auction**
You’ll have the opportunity to bid on a variety of items during the day on Monday, March 7 – but don’t delay, the bidding will close during the AASV Awards Reception 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. Don’t miss the excitement!
AASV Foundation Raffle

“Flying Pig” Piggy Bank

AASV Foundation Chairman Dr. Warren Wilson has been collecting spare change in this unique piggy bank since he graduated from veterinary school back in 19... well, let’s just say it’s been a few years ago! The bank measures about 9” long and 4” tall, so it contains a substantial number of coins, some of which might be rather valuable, given their age.

Warren has generously donated the pig to the AASV Foundation for this new FUNdraising activity. Here’s the deal: buy a raffle ticket and guess the total amount of money contained within the pig. The person whose guess comes closest to the actual amount wins the piggy bank AND its contents! ALL of the proceeds benefit the AASV Foundation!

Tickets: $5.00 per guess; $20.00 for 5 guesses
Monday General Session

Evidence-based Practice: How do we get there?

Date: Monday, March 7, 2011
Time: 8:00 AM – 12:30 PM
Location: Grande Ballroom ABCDEF
Program chair: Randy Jones

8:00
HOWARD DUNNE MEMORIAL LECTURE
Evidence-based practices:
Myths and applications
Locke Karriker

9:00
ALEX HOGG MEMORIAL LECTURE
Science-based medicine:
What are the application barriers?
Joe Connor

10:00
BREAK

10:30
Evidence-based swine welfare: Where are we and where are we going?
Anna Johnson

11:30
Political advocacy
Wes Jamison

12:30
LUNCHEON

AASV Luncheon
Sponsored by:
BOEHRINGER - INGELHEIM
VETMEDICA, INC.
Monday, March 7th
12:30 - 2:00 PM
Location: Highland Center
Breeding Herd Health Management

Date: Monday, March 7, 2011  
Time: 2:00 – 5:40 PM  
Location: Grande Ballroom AB  
Session chair: David Baum

2:00  Infectious disease syndromes of the breeding herd  
      Michael Yaeger

2:30  PCV2-associated reproductive failure  
      Darin Madson

3:00  Using breeding herd records to diagnose reproductive disorders  
      Morgan Morrow

3:30  BREAK

4:00  The ABC’s of swine rotaviruses  
      Linda Saif

4:40  Unintentional consequences of live virus inoculation  
      Mark FitzSimmons

4:55  Ways to measure feedback quality  
      Paulo Arruda

5:10  Introducing high health animals into positive farms  
      Matt Ackerman

5:40  Session concludes
Monday Concurrent Session #2

Grow-Finish

Date: Monday, March 7, 2011
Time: 2:00 – 5:30 PM
Location: Grande Ballroom CDF
Session chair: Matthew Turner

2:05 New (and old) tools for dysentery diagnostics
Kent Schwartz

2:30 Practitioner experiences with swine dysentery
Perry Harms

2:50 Mycoplasma hyorhinis: Epidemiology of infection in endemically infected farms
Maria Jose Clavijo

3:15 Mycoplasma hyorhinis: Practitioner experiences
Charles Surprenant

3:35 BREAK

4:00 Practitioner experiences with metabolic bone disease in growing pigs
Brad Leuwerke

4:20 Influenza: Who cares?
Marie Gramer

4:40 Porcine peri-weaning failure to thrive syndrome: Case presentation 1
Steve Henry

4:50 Porcine peri-weaning failure to thrive syndrome: Case presentation 2
John Harding

5:00 Porcine peri-weaning failure to thrive syndrome: Case presentation 3
Jeremy Pittman

5:10 Post-weaning grower fallbacks
Kurt Rossow
Monday Concurrent Session #2

5:20  Peri-weaning failure to thrive syndrome: Roundtable Q & A
      Steve Henry, John Harding, Jeremy Pittman, Kurt Rossow

5:30  Session concludes

AASV Awards Reception

Sponsored by:
ELANCO ANIMAL HEALTH
Monday, March 7th
6:30 – 8:30 PM
Location: Highland Center

Tuesday Breakfasts – 7:00 am

AASV Breakfast and Business Meeting
Tuesday, March 8th
7:00 – 8:00 AM
Location: Highland Center
# Monday Concurrent Session #3

## Antibiotics and Welfare

**Date:** Monday, March 7, 2011  
**Time:** 2:00 – 5:30 PM  
**Location:** Grande Ballroom E  
**Session chair:** Jeff Kaisand

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>2:00</td>
<td>Inside the beltway and beyond: Antibiotics</td>
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<td>Bobby Acord</td>
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<tr>
<td>2:30</td>
<td>Antibiotics and the R’s: Mechanisms of resistance</td>
</tr>
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<td></td>
<td>Paula J. Fedorka-Cray</td>
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<tr>
<td>2:55</td>
<td>Chemicals and the R’s: Residues</td>
</tr>
<tr>
<td></td>
<td>Patty Bennett</td>
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<tr>
<td>3:30</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>4:00</td>
<td>Inside the beltway and beyond: Welfare</td>
</tr>
<tr>
<td></td>
<td>Bobby Acord</td>
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<tr>
<td>4:20</td>
<td>“We Care”</td>
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<tr>
<td></td>
<td>Dallas Hockman</td>
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<td>4:35</td>
<td>Answering the call to on-the-farm care</td>
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<td></td>
<td>Sarah Probst Miller</td>
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<td>4:50</td>
<td>Canadian experience: Pain management</td>
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<td>James Egan Brockhoff</td>
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<td>5:05</td>
<td>Swine welfare potpourri: Briefing on euthanasia research results, PQA+</td>
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<tr>
<td></td>
<td>and other Pork Check-off efforts</td>
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<td></td>
<td>Sherrie Niekamp</td>
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<tr>
<td>5:30</td>
<td>Session concludes</td>
</tr>
</tbody>
</table>
Tuesday General Session

PRRS Update

Date: Tuesday, March 8, 2011  
Time: 8:00 AM – 12:00 PM  
Location: Grande Ballroom ABCDEF  
Session chairs: Paul Yeske

8:00  What have we really learned from PRRS research?  
Montse Torremorell

8:50  PADRAP: Production Animal Disease Risk Assessment Program  
Derald Holtkamp

9:10  Biosecurity non-negotiables: Breeding stock  
Tom Petznick

9:30  BREAK

10:00  Biosecurity non-negotiables: Grow-finish  
Jason Verbeck

10:20  Life inside the bubble: What is it like to have a filtered sow farm?  
Darwin Reicks

10:40  What do we do with PRRS-negative pigs?  
Tim Loula

11:00  Are we ready to move forward with PRRS elimination?  
Scott Dee

11:45  PRRS Roundtable Q & A

12:00  Meeting concludes
43rd Annual Meeting

March 10-13, 2012

Hyatt Regency Denver

Denver, Colorado
<table>
<thead>
<tr>
<th>Speakers</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jessica Abbott</td>
<td>Ames, IA</td>
</tr>
<tr>
<td>Matthew Ackerman</td>
<td>Greensburg, IN</td>
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<tr>
<td>Bobby Acord</td>
<td>Rocky Point, NC</td>
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<tr>
<td>Kyle Alberti</td>
<td>Chesapeake, VA</td>
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<tr>
<td>Matt Allerson</td>
<td>St Paul, MN</td>
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<tr>
<td>Greg Armbruster</td>
<td>Corcoran, MN</td>
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<td>Paulo Arruda</td>
<td>Ames, IA</td>
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<tr>
<td>Carl Aspler</td>
<td>Toronto, ON</td>
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<tr>
<td>Hanne Bak</td>
<td>Copenhagen, DENMARK</td>
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<tr>
<td>Natalie Baker</td>
<td>Chandler, IN</td>
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<tr>
<td>Joshua Barker</td>
<td>Starkville, MS</td>
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<td>Angela Baysinger</td>
<td>Bruning, NE</td>
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<td>Dana Beckler</td>
<td>Fergus Falls, MN</td>
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<tr>
<td>Patty Bennett</td>
<td>Washington, DC</td>
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<tr>
<td>Ryan Bracken</td>
<td>Winnipeg, MB</td>
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<td>J. Egan Brockhoff</td>
<td>Winnipeg, MB</td>
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<tr>
<td>Paisley Canning</td>
<td>Guelph, ON</td>
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<tr>
<td>Mitch Christensen</td>
<td>Orange City, IA</td>
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<td>Jane Christopher-Hennings</td>
<td>Brookings, SD</td>
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<td>Maria Clavijo</td>
<td>St Paul, MN</td>
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<td>Kristin Clothier</td>
<td>Davis, CA</td>
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<td>Archie Clutter</td>
<td>Chesterfield, MO</td>
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<td>Aidan Connolly</td>
<td>Nicholasville, KY</td>
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<td>Joe Connor</td>
<td>Carthage, IL</td>
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<td>Cesar Corzo</td>
<td>St Paul, MN</td>
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<tr>
<td>Peter Davies</td>
<td>St Paul, MN</td>
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<td>Deanne Day</td>
<td>Ames, IA</td>
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<tr>
<td>Scott Dee</td>
<td>St Paul, MN</td>
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<tr>
<td>Joel DeRouchey</td>
<td>Manhattan, KS</td>
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<td>Susan Detmer</td>
<td>St Paul, MN</td>
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<td>Edgar Diaz</td>
<td>St Joseph, MO</td>
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<td>Paul Dorr</td>
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<td>Joshua Duff</td>
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<td>Luc Dufresne</td>
<td>Shawnee Mission, KS</td>
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<td>Tom Duinhof</td>
<td>Deventer, THE NETHERLANDS</td>
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<td>Mike Eisenmenger</td>
<td>Windom, MN</td>
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<td>Paul Fedorka-Cray</td>
<td>Athens, GA</td>
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<td>Larry Firkins</td>
<td>Mahomet, IL</td>
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<td>Robert Fischer</td>
<td>Sioux Falls, SD</td>
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<td>Mark FitzSimmons</td>
<td>Mapleton, MN</td>
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<tr>
<td>Robyn Fleck</td>
<td>Norman, AR</td>
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<tr>
<td>Charlotte Friendship</td>
<td>Guelph, ON</td>
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</tbody>
</table>
Speakers (continued)

Monte Fuhrman
Sasha Gibson
Jordan Graham
Patrick Graham
Marie Gramer
Brad Gramm
Laura Greiner
Brianna Groubert
Abby Harding
John Harding
Perry Harms
Ben Hause
Amber Hazel
Steve Henry
Becky Hobson
Dallas Hockman
Derald Holtkamp
Isaac Huerta
Daniel Hurnik
Christa Irwin
Eva Jablonski
Jay Jacela
Jared Jacobson
Wes Jamison
Anna Johnson
Jeremy Johnson
Kurt Kamrud
Locke Karriker
Johannes Kauffold
Jason Kelly
Kristy Kenney
Attila Mihály Kertesz
Roy Kirkwood
Apisit Kittawornrat
Timothy Kniffen
Jim Kober
Darwin Kohler
Seth Krantz
Chris Kuster
Karen Lehe
Brad Leuwerke
Boh Chang Lin

Canistota, SD
Fairmont, MN
Ames, IA
Pittsfield, IL
St Paul, MN
Bloomington, IL
Carthage, IL
Urbana, IL
Lafayette, IN
Saskatchewan, SK
Rose Hill, NC
Worthington, MN
St Paul, MN
Solomon, KS
Ames, IA
Urbandale, IA
Ames, IA
Minneapolis, MN
Charlottetown, PE
Ames, IA
Webster City, IA
Des Moines, IA
Ames, IA
West Palm Beach, FL
Ames, IA
Ames, IA
Ames, IA
Ames, IA
Kennett Square, PA
Alguna, IA
Raleigh, NC
Kaposvár, HUNGARY
Lansing, MI
Ames, IA
Waukee, IA
Holland, MI
Rochester, MN
Carthage, IL
Geneseo, IL
West Lafayette, IN
Janesville, MN
Omaha, NE
<table>
<thead>
<tr>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>Merlin Lindemann</td>
<td>Lexington, KY</td>
</tr>
<tr>
<td>Daniel Linhares</td>
<td>Falcon Heights, MN</td>
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<tr>
<td>Tim Loula</td>
<td>St Peter, MN</td>
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<tr>
<td>Hannah Lowe</td>
<td>Blacksburg, VA</td>
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<tr>
<td>Aaron Lower</td>
<td>Seymour, IL</td>
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<tr>
<td>Nubia Macedo</td>
<td>St Paul, MN</td>
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<tr>
<td>Darin Madson</td>
<td>Ames, IA</td>
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<tr>
<td>Anna Massie</td>
<td>Urbana, IL</td>
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<tr>
<td>Jeremy Mathers</td>
<td>Chicago Heights, IL</td>
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<tr>
<td>Marlena McCarty</td>
<td>Columbus, OH</td>
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<tr>
<td>Jessica McKinney</td>
<td>Urbana, IL</td>
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<tr>
<td>Dan McManus</td>
<td>Dakota Dunes, SD</td>
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<tr>
<td>Steven McOrist</td>
<td>Sutton Bonington, UK</td>
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<tr>
<td>Dale Mechler</td>
<td>Algonia, IA</td>
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<td>Allison Meiszberg</td>
<td>Ames, IA</td>
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<td>Marnie Mellencamp</td>
<td>St Joseph, MO</td>
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<tr>
<td>Britni Miller</td>
<td>Champaign, IL</td>
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<td>Daren Miller</td>
<td>West Lafayette, IN</td>
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<tr>
<td>Adam Moeser</td>
<td>Raleigh, NC</td>
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<td>Christine Mowrer</td>
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<tr>
<td>Ricardo Munoz</td>
<td>Austin, TX</td>
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<tr>
<td>Daniel Nelson</td>
<td>East Bethel, MN</td>
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<td>Amanda Ness</td>
<td>Saint Ansgar, IA</td>
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<td>Sherrie Niekamp</td>
<td>Clive, IA</td>
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<tr>
<td>Greg Nitzel</td>
<td>Kalamazoo, MI</td>
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<td>Tanja Opriessnig</td>
<td>Ames, IA</td>
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<td>Mark Papich</td>
<td>Raleigh, NC</td>
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<td>John Patience</td>
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<tr>
<td>Gilbert Patterson</td>
<td>Philadelphia, PA</td>
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<tr>
<td>Lindomar Pena</td>
<td>College Park, MD</td>
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<tr>
<td>Tom Petznick</td>
<td>Norfolk, NE</td>
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<tr>
<td>Mike Pierdon</td>
<td>Elizabethtown, PA</td>
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<tr>
<td>Juan Carlos Pinilla</td>
<td>Hendersonville, TN</td>
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<tr>
<td>Andrea Pitkin</td>
<td>St Paul, MN</td>
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<tr>
<td>Jeremy Pittman</td>
<td>Wakefield, VA</td>
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<tr>
<td>John Prickett</td>
<td>Ogden, IA</td>
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<tr>
<td>Alexander Primus</td>
<td>Minneapolis, MN</td>
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<tr>
<td>Sarah Probst Miller</td>
<td>Monticello, IL</td>
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<tr>
<td>Casey Rabbe</td>
<td>Fairmont, MN</td>
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<tr>
<td>Vicki Rapp-Gabrielson</td>
<td>Kalamazoo, MI</td>
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<tr>
<td>Abigail Redalen</td>
<td>Fountain, MN</td>
</tr>
<tr>
<td>David Reeves</td>
<td>Watkinsville, GA</td>
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</tbody>
</table>
Speakers (continued)

Darwin Reicks St Peter, MN
Kristen Reynolds Aurora, ON
Anna Romagosa St Paul, MN
Leigh Rosengren Midale, SK
Kurt Rossow St Paul, MN
Albert Rovira St Paul, MN
Brandon Russell Ames, IA
Linda Saif Wooster, OH
Kyle Schachtschneider Urbana, IL
Elissa Schlueter St Paul, MN
Peter Schneider Ames, IA
Kimberly Schultz Ames, IA
Kent Schwartz Ames, IA
Michael Senn Newton, KS
Xaver Sidler Ingelheim, GERMANY
Michael Slattery Ames, IA
John Sonderman Columbus, NE
Michelle Sprague Audubon, IA
Gordon Spronk Pipestone, MN
Chase Stahl Ames, IA
Andrew Stas Philadelphia, PA
Hans Stein Urbana, IL
Manon St-Hilaire St-Jean-Chrysostome, QC
Douglas Stine Worthington, MN
Erin Strait Webster City, IA
Rexanne Struve Manning, IA
Robert Stuart Bedford, TX
Angie Supple Algona, IA
Charles Surprenant St-Jean sur Richelieu, QC
Brenda Tassava Indianapolis, IN
Sarah Taylor Guelph, ON
Brad Thacker Columbia, MD
Paul Thomas Ames, IA
Bob Thompson Franklin, KY
Lisa Thompson Raleigh, NC
Montse Torremorell St Paul, MN
Juan Luis Ubeda Zaragoza, SPAIN
Evan Van Beusekom St Paul, MN
Jon Van Blarcom Columbia Cross Roads, PA
Cristina Venegas-Vargas East Lansing, MI
Jason Verbeck Carlyle, IL
Thais Vila Lyon, FRANCE
Speakers (continued)

Kilby Willenburg  Fitchburg, WI
Amanda Williams  Hendersonville, TN
Mark Wilson  Eden Prairie, MN
Michael Yaeger  Ames, IA
Paul Yeske  St Peter, MN
Louisa Zak  Belleville, ON
Jeff Zimmerman  Ames, IA
We extend our sincere appreciation to the following sponsors of AASV annual meeting activities:

**ALLTECH**
Sunday Luncheon

**ALPHARMA, LLC**
AASV Student Seminar and Student Poster Session
AASV Foundation
Veterinary Student Scholarship

**BOEHRINGER INGELHEIM VETMEDICA**
AASV Luncheon
Veterinary Student Poster Awards

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

**INTERVET/SCHERING-PLough ANIMAL HEALTH**
Student Reception

**NEWSHAM CHOICE GENETICS**
Prayer Breakfast

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

**PFIZER ANIMAL HEALTH**
Welcome Reception
SATURDAY, MARCH 5

7:00 AM
Registration Desk open
Location: Grande Ballroom Foyer

Committee Meetings

7:30 AM
PRRS Risk Assessment Training
Location: Grande Ballroom B

8:00 AM
ABVP Entrance Examination
Location: Sunrise D (4th level)
ABVP Oral Examination
Location: Sunrise C (4th level)

1:00 PM
SEMINARS

#1 Diagnostics (see page 12)
Location: Grande Ballroom F

#2 Alternative (Opportunity?) Feed Ingredients in Swine diets (see page 14)
Location: Grande Ballroom E

#3 “We the Jury…” Seeking, interpreting, and using the evidence of trial date (see page 16)
Location: Grande Ballroom H

#4 Communicating Using Social Media (see page 18)
Location: Grande Ballroom J

#5 AASV’s Got Talent (Practice Tips) (see page 19)
Location: Grande Ballroom GI

5:30 PM
OPEN EVENING
There is no reception scheduled for Saturday evening. Explore and enjoy Phoenix!
SCHEDULE

SUNDAY, MARCH 6

6:30 AM
AASV Student Breakfast
Location: Grande Ballroom AB

7:00 AM
Prayer Breakfast
Sponsored by NEWSHAM CHOICE GENETICS
Location: Grande Ballroom E

Registration Desk open
Location: Grande Ballroom Foyer

8:00 AM
Canadian Swine Veterinarians
Location: Courtroom QR (3rd level)

SEMINARS

#6 Reproduction: Tools and Technology for Improving Boar and Sow Reproductive Performance
(see page 21)
Location: Grande Ballroom CD

#7 Case Studies from the “Young Guns of the AASV”
(see page 22)
Location: Grande Ballroom F

#8 Driving Change (see page 24)
Location: Grande Ballroom GI

#9 “Young Guns” (see page 25)
Location: Grande Ballroom H

RESEARCH TOPICS (see page 26)
Location: Grande Ballroom J
12:00 PM
LUNCHEON
Sponsored by ALLTECH
Location: Highland Center

AASV FOUNDATION LUNCHEON
Location: Courtroom MN (2nd level)

POSTER SESSIONS OPEN
Authors in attendance: 12:00 – 1:00 PM
Location: Highland Center
Student Posters (see page 37)
Sponsored by ALPHARMA, LLC
Research Topics Posters (see page 41)
Industrial Partners Posters (see page 43)

1:00 PM
CONCURRENT SESSIONS
#1 Student Seminar (see page 28)
Sponsored by ALPHARMA, LLC
Location: Grande Ballroom ABE

#2 Industrial Partners (see page 30)
Location: Grande Ballroom CDF

#3 Industrial Partners (see page 33)
Location: Grande Ballroom GI

#4 Industrial Partners (see page 35)
Location: Grande Ballroom HJ

6:30 PM – 8:30 PM
WELCOME RECEPTION
Sponsored by PFIZER ANIMAL HEALTH
Location: Highland Center

8:30 PM – 11:00 PM
STUDENT RECEPTION
Sponsored by INTERVET/SCHERING-PLough
ANIMAL HEALTH
Location: Grande Ballroom
MONDAY, MARCH 7

7:00 AM  
Registration Desk open  
Location: Grande Ballroom Foyer  
Spouse Hospitality Suite open (see page 45)  
Location: Sunrise CD (4th level)  
Spouse tour participants meet in resort lobby by 8:45 AM for departure  

8:00 AM – 12:30 PM  
GENERAL SESSION (see page 48)  
Location: Grande Ballroom ABCDEF  
Howard Dunne Memorial Lecture: Dr. Locke Karriker  
“Evidence-based practices: Myths and applications”  
Alex Hogg Memorial Lecture: Dr. Joe Connor  
“Science-based medicine: What are the application barriers?”  

9:00 AM – 5:00 PM  
COMMERCIAL TECHNICAL TABLES (see page 8)  
Location: Grande Ballroom GHIJ  

12:30 PM  
LUNCHEON  
Sponsored by BOEHRINGER INGELHEIM VETMEDICA INC.  
Location: Highland Center  

2:00 – 5:30 PM  
CONCURRENT SESSIONS  
#1 Breeding Herd Health Management (see page 49)  
Location: Grande Ballroom AB  
#2 Grow-Finish (see page 50)  
Location: Grande Ballroom CDF  
#3 Antibiotics and Welfare (see page 52)  
Location: Grande Ballroom E  

6:30 PM – 8:30 PM  
AASV AWARDS RECEPTION  
Sponsored by ELANCO ANIMAL HEALTH  
Location: Highland Center  
AASV FOUNDATION AUCTION (see page 46)
TUESDAY, MARCH 8

7:00 AM
Registration Desk open
Location: Grande Ballroom Foyer

BREAKFAST and AASV ANNUAL BUSINESS MEETING
Location: Highland Center

8:00 AM
GENERAL SESSION (see page 53)
PRRS Update
Location: Grande Ballroom ABCDEF

8:00 AM – 12:00 PM
COMMERCIAL TECHNICAL TABLES (see page 8)
Location: Grande Ballroom GHIJ

12:00 PM
MEETING CONCLUDES

1:00 PM
AASV BOARD OF DIRECTORS MEETING
Location: Courtroom N (2nd level)

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Technical Tables Open

Monday, March 7
9:00 AM – 5:00 PM

Tuesday, March 8
8:00 AM – 12:00 PM

Location: Grande Ballroom GHIJ
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.