Plan now to attend the AASV 44th Annual Meeting
March 2-5, 2013
Manchester Grand Hyatt
SAN DIEGO
CALIFORNIA

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.
"Integrating Science, Welfare and Economics in Practice" is the theme of this year’s meeting; it is what we strive to do every day. Giving sound medical advice and treatments backed by science is expected by owners, clients, and consumers; and as practitioners, it’s our commitment to excellence to meet their expectations. With that challenge, our program committee has delivered on the task of bringing the AASV a meeting carefully planned to include the most up-to-date information on our core areas of science as well as keeping our appetite for new technologies and innovative ideas satisfied.

The pre-session line-up on Saturday and Sunday provides 11 choices that reflect the wide ranging scope of our members’ interests. There is sure to be one that will provide you with information you can take home and apply to your business or practice. Don’t forget that the Research Topics session is on Sunday morning. Sunday afternoon is packed with four session options, the always popular and sought-after Student Seminar along with three Industrial Partners sessions that provide a look at the industries’ leading technical innovations.

On Monday morning our keynote speaker delivering the Howard Dunne Memorial Lecture is Dr. Dean Boyd. His message will focus on “How to integrate science into practice to improve business viability.” With the turbulent economic situation in our country, improving business viability is the key to success. In pork production, business viability is directly influenced by the health and performance of the pig.

Message from the Program Chair, Dr. Tara Donovan
Welcome to Mile-High Denver!

Settled in the valley below the beautiful Rocky Mountains in Colorado, Denver is a majestic location for the 43rd AASV Annual Meeting. The inspiring peaks provide the perfect backdrop to stimulate our minds on how to integrate the new information we learn into our businesses.

“With the turbulent economic situation in our country, improving business viability is the key to success”
Dr. Lisa Tokach will follow on Monday morning asking the question: “Science, welfare, and economics: Are they cornerstones or just a balancing act?” in her presentation of the Alex Hogg Memorial Lecture. She will challenge you with some thought-provoking scenarios about the realities we are faced with in practice, and relates these to her recent experiences in the Heifer International Program.

Our mid-morning session on Monday sets the foundation for the afternoon sessions. We start with understanding the immunological response to disease in both individual pigs and in pig populations, then delve into evidence based medicine to make decisions, and the impacts of disease on pig welfare. The afternoon program expands further into three specific areas of pig disease: respiratory, enteric, and the effects of nutrition on animal health.

As a follow-up to last year’s meeting agenda, we have dedicated the majority of Tuesday morning to PRRS virus. Preceding the PRRS updates, Dr. Amy Vincent will share her research perspective on how swine influenza virus continues to evolve as a serious threat to global pig health and how its potential for zoonotic disease further strengthens the need for continued research and surveillance in pigs. PRRS hasn’t changed from being the most economically devastating pathogen in the swine industry. We have entire conferences dedicated to this virus, so the task of providing adequate time for presentations surrounding PRRS virus at the AASV meeting was daunting. The AASV PRRS Task Force was charged with organizing this part of the program and I think you will find that they delivered on your expectations.

Before I end this welcome message, I want to take the opportunity to thank the terrific group of members that formed the planning committee. Their volunteered time and devotion are what make this organization so outstanding. The AASV staff deserves more accolades than I can give for their help in making this meeting a success.

Enjoy your time in Denver!
~ Tara Donovan
Program Committee

Tara Donovan, Chair
Matt Anderson
Steve Dritz
Mike Eisenmenger
Christa Irwin
Eva Jablonski
Randy Jones
Mike Kuhn
Ian Levis
Jim Lowe
Rodger Main
Jay Miller

Isabelle Moreau
Bob Morrison
Deb Murray
Brian Payne
Jeremy Pittman
Sarah Probst Miller
Paul Ruen
Montse Torremorell
Keith Wilson
Barry Wiseman
Registration

Registration desk located in Centennial Foyer

Saturday, March 10  7:00 AM – 5:00 PM
Sunday, March 11  7:00 AM – 5:00 PM
Monday, March 12  7:00 AM – 5:00 PM
Tuesday, March 13  7:00 AM – 12:00 PM

Fees

Register online at www.aasv.org/annmtg

AASV member pre-registration  $320
AASV member registration after Feb. 17  $355
Nonmember veterinarian registration  $440
Add’l Tech Table representatives (limit 3)  $440

Meeting Hotel

Hyatt Regency Denver
650 15th Street
Denver, CO 80202
Tel: 303-436-1234
Fax: 303-486-4450

Continuing Education Credit

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

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

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

President-Elect
Dr. Tara Donovan
The Hanor Company
E 4614 Hwy 14-60
PO Box 460
Spring Green, WI 53588
Tel: (608) 588-9170 x 9627
donovan@hanorusa.com

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

Past President
Dr. Paul Ruen
Fairmont Veterinary Clinic
1275 Highway 15 South
Fairmont, MN 56031
Tel: 507-238-4456
pruen@fmtvets.com
District 1
Dr. William Minton
108 West Franklin Street
Chickasaw, OH 45826
USA

District 2
Dr. Matthew Turner
4651 Taylors Bridge Hwy
PO Box 438
Clinton, NC 28329
USA

District 3
Dr. Bill Starke
12200 NW Ambassador, Suite 225
PO Box 20044
Kansas City, MO 64195
USA

District 4
Dr. John Baker
8866 Telephone Road
Chandler, IN 47610
USA

District 5
Dr. Doug Groth
Carthage Veterinary Service Ltd.
PO Box 220
Carthage, IL 62321
USA

District 6
Dr. Kent Schwartz
Veterinary Diagnostic Laboratory
Iowa State University CVM
Ames, IA 50011
USA

District 7
Dr. William DuBois
628 Elder Lane
Mustang, OK 73064
USA

District 8
Dr. Brian Schantz
304 Wakefield Street
PO Box 687
Laurel, NE 68745
USA

District 9
Dr. Scott Dee
Pipestone Veterinary Clinic
PO Box 188
Pipestone, MN 56164
USA

District 10
Dr. Alberto Stephano
Villa De Guadalupe 234
Villas Del Campestre
Leon, GTO 37129
MEXICO

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

Student Delegate
William Shamus Brown III
505 N 16th Street
Indianola, IA 50125
USA
Technical Tables

Academy of Rural Veterinarians
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IDEXX
IMV Technologies
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Micron Bio-Systems
**SATURDAY, MARCH 10**

**PIC 50th ANNIVERSARY CELEBRATION RECEPTION**
Sponsored by: PIC  
5:00 – 7:00 PM  
Centennial FGH

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**SUNDAY, MARCH 11**

**PRAISE BREAKFAST**
Sponsored by: Newsham Choice Genetics and Boehringer Ingelheim Brothers and Sisters in Christ  
7:00 – 8:00 AM  
Mineral DEFG

**WELCOME RECEPTION**
Sponsored by Pfizer Animal Health  
6:30 – 8:30 PM  
Capitol Ballroom

**STUDENT RECEPTION**
Sponsored by Merck Animal Health  
8:30 – 11:00 PM

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**MAP**

Turn to the back cover of this program booklet for a fold-out map of the Hyatt Convention Center.
Receptions & More!

MONDAY, MARCH 12

SPOUSE HOSPITALITY SUITE
7:00 – 9:00 AM
Agate ABC

AASV LUNCHEON
Sponsored by Boehringer Ingelheim
12:30 – 2:00 PM
Capitol Ballroom

AASV AWARDS RECEPTION
& FOUNDATION AUCTION
Sponsored by Elanco Animal Health
6:30 – 8:30 PM
Capitol Ballroom

TUESDAY, MARCH 13

AASV BUSINESS BREAKFAST
Tuesday, March 12
7:00 – 8:00 AM
Centennial E

Internet Kiosk
Sponsored by: GlobalVetLink
Check your email or search the Web
Located in the Centennial Foyer
Risk Assessment Training

Web-based PRRS Risk Assessment Training for the Breeding Herd

Date: Saturday, March 10, 2012
Time: 7:30 AM – 12:30 PM
Location: Mineral A (third level)
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 allows you to view benchmarking reports immediately after submitting an assessment. The website underwent a “facelift” in May 2011 and gained a few new useful features.

Three ways veterinarians have applied the PRRS Risk Assessment:

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

This session is open to AASV member veterinarians who have not previously used the PRRS Risk Assessment, as well as those who have previously been trained on the spreadsheet version. Please bring a laptop with MS Windows 2000, XP, Vista, or Windows 7 capable of accessing the internet via wireless connection.
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>7:30</td>
<td>Welcome and introductions (note the early start time!)</td>
<td>Derald Holtkamp</td>
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<tr>
<td>7:45</td>
<td>Application of PRRS Risk Assessment</td>
<td>Egan Brockhoff and Kevin Vilaca</td>
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<tr>
<td>8:00</td>
<td>Overview of PRRS Risk Assessment</td>
<td>Dale Polson</td>
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<td>8:45</td>
<td>“How to” Tour of PADRAP</td>
<td>Chris Mowrer</td>
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<td>Resetting/retrieving your password, creating a new production system,</td>
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<td>setting up a site and survey, navigating through a survey, duplicating</td>
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<td>and taking multiple surveys</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>
<td>Dale Polson</td>
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<td>12:00</td>
<td>Demonstration of pareto chart and the database and benchmarking tool</td>
<td>Derald Holtkamp</td>
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<td>for risk assessment data: Interpreting results</td>
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<tr>
<td>12:30</td>
<td>Training concludes</td>
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Applying Evidence Based Medicine (EBM) in Practice

Date: Saturday, March 10, 2012
Time: 1:00 – 5:00 PM
Location: Centennial A (third level)
Fee: $95.00
Seminar co-chairs: Alex Ramirez, Darin Madson

Description:

This seminar is focused on improving the implementation of evidence-based medicine (EBM) in swine medicine. The workshop will be centered on field applications of EBM, not institutional research. Individual and group discussion will be solicited to help guide EBM concepts in both a simple as well as a complex field scenario.

After a brief, interactive introduction, individuals will be split into groups. Each group will be facilitated by a member of a practitioner panel recruited to help with this seminar. Groups will work on discussing how they would implement a field trial in their practice to provide evidence on the effectiveness of a new vaccine.

A second group activity will involve a more complex clinical problem (mulberry heart disease mortality). This complex problem will be broken down into smaller parts focused on decision-making based on evidence. How do you define the problem? What information is already known? How do you decide on prioritizing interventions as well as how do you monitor the outcomes of the interventions?

The goal of this workshop is for participants to understand what EBM is as well as to be aware of how to better implement and interpret information/results from studies (institutional research as well as field research). Ultimately, this workshop will help practitioners improve their implementation of EBM in swine practice.
Seminar 1

1:00  Welcome and introduction to EBM
      Alex Ramirez and Darin Madson

1:15  Background for examples and case studies
      Alex Ramirez

2:00  Example 1: Vaccine effectiveness
      Interactive group with practitioner panel member

2:45  How to formulate an answerable clinical question;
      the difference between statistical and clinical significance
      Alex Ramirez

3:00  BREAK

3:20  Example 2: Investigating mulberry heart disease mortality
      Darin Madson

5:00  Seminar concludes
Preventing Profit-Robbing Events in Growing Pig Populations

**Date:** Saturday, March 10, 2012  
**Time:** 1:00 – 5:00 PM  
**Location:** Centennial D (third level)  
**Fee:** $95.00  
**Seminar chair:** Mike Eisenmenger

**Description:**

In today’s competitive environment, we can’t afford to give away profit by allowing preventable profit-robbing events to happen. This session will feature speakers that have “real life” experiences to share. They have dealt with these events and have solutions for you to take home to prevent them from occurring in work or practice.

Speakers will focus on ventilation events that cause dead pigs as well as the science behind why this happens, biosecurity practices that lead to sustainable health, lessons learned in the transportation of weaned pigs through market loads to prevent deaths, and finally, a focus on feed-outs and nutrition as it relates to preventable losses.

You should leave this session with clear ideas and strategies on how to prevent loss events associated with feed, water, air, biosecurity and transportation.

1:00 Opening comments  
**Mike Eisenmenger**

1:15 Understanding and preventing ventilation events that cause production losses  
**Mike Brumm**

2:15 Wean-to-finish biosecurity: Lessons learned  
**Jana Grauerholz-Morgan**

3:00 BREAK

3:15 Understanding and preventing transportation losses from the wean event to the packing plant  
**Chris Rademacher**
Seminar 2

4:00  Strategies to maximize pig performance: Role of feed and feeding events in wean-to-finish production
      Chad Hastad

4:45  Roundtable Q & A
      All speakers

5:00  Seminar concludes

PIC 50th Anniversary Celebration

Sponsored by: PIC

Saturday, March 10
5:00 – 7:00 PM
Centennial FGH (third level)
Seminar 3

Crisis Management

Date: Saturday, March 10, 2012
Time: 1:00 – 5:00 pm
Location: Centennial B (third level)
Fee: $95.00
Seminar chair: Mike Kuhn

Description:
Raising pigs is easy. We all know the basics of good pig health and management, but more and more we are asked to step into new roles. These roles can include such things as managing transportation, euthanasia and weather-related catastrophes. We also continue to grow in our role in various social issues and in social media. The speakers in this session will give insights into their experiences dealing with some of these challenges.

1:00 What’s the balance in your reputation bank account?
Amy Richards

1:45 Rapid response in a weather event: “When the floods came”
Carly Dorazio

2:15 Transportation: “Planning for the unexpected”
Jennifer Woods

3:00 BREAK

3:30 Dealing with a mass euthanasia event
Egan Brockhoff

4:15 When you see your company on YouTube
Howard Hill

5:00 Seminar concludes
Seminar 4

Providing Solutions with Impact: Practice Tips with a Twist

Date: Saturday, March 10, 2012
Time: 1:00 – 5:00 PM
Location: Centennial E (third level)
Fee: $80.00
Seminar chair: Jay Miller

Description:

Have you attended or participated in the fun and interactive “practice tips” idea-sharing session? This pre-conference seminar takes practice tips to a new level by providing a panel of expert judges that will select one of the presentations to receive the “most impact” award, replacing the audience vote used in past years. Eight veterinarians will present a case, project, or experience they feel would impact the attendees by providing a new solution or approach to a problem. As in the past, these busy veterinarians have not been required to write a paper. The wide range of possibilities for new ideas is sure to provide some take-home solutions with impact!

1:00 Evaluation of flow-based *Mycoplasma hyopneumoniae* challenges
   Clayton Johnson

1:25 Atypical PRRS stability management in a 2500-head sow farm
   Marlin Hoogland

1:50 Farrow-to-finish vertical *Mycoplasma hyopneumoniae*; Pay now or pay later
   Todd Wolff

2:15 A no-good, very bad week
   Cameron Schmitt

2:40 Rotavirus A, B, and C case study in suckling pigs
   Dyneah Classen

3:05 BREAK

*Continued on next page*
Seminar 4

3:30  The value of the diagnostician’s discretion
      Nathan Schaefer

3:55  Add $2.00+ per head to a client’s profit without half-dosing any vaccine
      Jason Kelly

4:20  Something different
      Ian Levis

4:45  Roundtable Q & A
      All speakers

5:00  Seminar concludes
Seminar 5

The Changing Face of Swine Health and Swine Practice around the Globe

Date: Saturday, March 10, 2012
Time: 1:00 – 5:00 PM
Location: Centennial C (third level)
Fee: No charge
Seminar co-chairs: Patrick Webb, Rodger Main

Co-sponsored by USDA

Description:

Curious about what the major disease issues are outside of North America? Ever wonder what it would be like to consult in other parts of the world where foreign animal diseases are just another facet in a herd health plan? Wonder what is going on with foreign animal disease planning and policy in the United States? Then come spend an afternoon to learn about the changing face of swine health and practice around the globe.

In this informative seminar, participants will learn about major swine health issues from regions around the globe and hear from various AASV members about their consulting experiences in European countries, Russia, and China. Participants will also get up-to-date overviews of foreign animal disease preparedness and response strategies in the United States from USDA and the pork industry. So if you’re curious about international consulting or just want to catch up on emergency preparedness, then this is the seminar for you!

1:00  Swine health: A global perspective
      Dave Pyburn

1:30  Opportunities and experiences practicing in emerging markets: Russia
      Hans Rotto

2:00  Opportunities and experiences practicing in emerging markets: Eastern Europe
      Mike Mohr

Continued on next page
Seminar 5

2:30 Opportunities and experiences practicing in emerging markets: China
Donna Harris and Dale Hendrickson

3:00 BREAK

3:30 USDA foreign animal disease response strategies and policies
Jon Zack

4:15 Pork industry foreign animal disease preparedness
Patrick Webb

4:45 Roundtable Q & A
All speakers

5:00 Seminar concludes
PRAISE BREAKFAST

Sunday, March 11
7:00 – 8:00 AM

Location:
Mineral DEFG

Coordinator:
Dave Smidt

Co-sponsored by:
Newsham Choice Genetics
Boehringer Ingelheim
Brothers and Sisters in Christ

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 Praise Breakfast!

This year we will enjoy a presentation from a special guest, Dr. Keith Flanagan, Christian Veterinary Mission-Haiti. He will share how God is at work in this country as well as recent experiences with Teschovirus. 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 our sponsors, 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 6

Applied Diagnostics and Algorithms

Date: Sunday, March 11, 2012  
Time: 8:00 AM – 12:00 PM  
Location: Centennial ABC (third level)  
Fee: $95.00  
Seminar chair: Eva Jablonski

Description:
To start the seminar, two expert diagnosticians from Iowa State University and the University of Minnesota will team up to share step-wise diagnostic algorithms by system/syndrome. Focus areas will include enteric disease, respiratory disease, septicemia/joints/CNS disease, and metabolic disease. Discussion will focus on step-wise diagnostic methodology, primary rule-outs, capabilities and limitations of diagnostic tools, and gold-standard tests for confirmatory diagnosis. Seminar participants will leave with a take-home reference guide on how to take a clinical presentation and end up with a treatable pathogen.

After a refreshing break, we will reconvene to discuss the next development in oral fluid technology, understanding the use and performance of PRRS ELISA adapted for oral fluids, followed by field experiences from two practitioners who have implemented oral fluid PCR testing in their system/practice. They will share their insights on how oral fluid testing has added value to their practice and diagnostic methods.

Finally, as many practitioners struggle with managing the plethora of diagnostic data that we collect, the session will wrap up with a glance at one unique method of handling diagnostic data.

8:00  A systematic approach to swine diagnostics  
Jerry Torrison and Bruce Janke

10:00  BREAK

10:30  Performance of a commercial PRRS ELISA adapted for the detection of PRRS antibodies in oral fluids  
Jeff Zimmerman

11:00  Grow-finish surveillance using oral fluids  
Jana Grauerholz-Morgan
Seminar 6

11:20  Practical application of oral fluid testing in multiplication
Laura Schulz-Dalquist

11:40  Critical vs clinical thinking about health challenges:
The role of data aggregation
Jim Lowe

12:00  Seminar concludes
Seminar 7

Precision Pharming: The Future of Practical Pharmacology

Date: Sunday, March 11, 2012
Time: 8:00 AM – 12:00 PM
Location: Centennial F (third level)
Fee: $95.00
Seminar chair: Sarah Probst Miller

Description:
In the future, our responsibility for judicious use of antibiotics will only increase. What does this mean? What will our role be? What tools do we have available to have good “antibiotic housekeeping” on the farms we serve? How can we not inadvertently shut down the US export market? What can we do to reduce the development of antibiotic resistance? This seminar works to answer these questions while providing tools to help us prepare practically for the future.

8:00  The urgency of our responsibility and role, and the reality of our increased future responsibility
Paul Ruen

8:30  Good Housekeeping challenge: Structural considerations on decision making
Scott Hurd

9:00  Practical knowledge to keep yourself from shutting down the US export market: A real-life example and solution
Mary Battrell and Mike Apley

10:00  BREAK

10:15  How do we practice medicine to minimize antibiotic resistance?
Joseph Blondeau

11:15  Practical daily decision making (large system and practice): What influences our choices? What are our limitations? What makes us biased?
Matthew Turner and Egan Brockhoff

12:00  Seminar concludes
Pork Processing Plant 101

Date: Sunday, March 11, 2012  
Time: 8:00 AM – 12:00 PM  
Location: Centennial GH  
Fee: $95.00  
Seminar chair: Barry Wiseman

Description:

The objectives of this program are to introduce the participants to the activities and resources available in the pork processing plant. We will have FSIS veterinarians as well as plant employees discuss what happens from the time the truck gets to the plant until the carcasses have been processed. This will include humane handling in the barn as well as all areas of carcass inspection, specifically where pigs are lost. We will discuss detection of antibiotic residues in meat, which is particularly relevant to the export market. And, we will review different plant matrix plans. Our goal is that you should learn everything you never knew you wanted to know about processing plants.

8:00 Which way is up in the pork processing plant?  
Barry Wiseman

8:30 Role and activities of the Food Safety Inspection Service (FSIS)  
Maria Esteras

9:10 Understanding matrices  
Peter Bahnson

9:40 BREAK

9:55 FSIS  
To be announced

10:35 Update on antibiotic residues  
Robert Salter

11:05 Operations at a HIMP* plant  
Selina Hallan

11:45 Roundtable Q & A  
All speakers

12:00 Seminar concludes

*HIMP = HACCP-based Inspection Models Project  
(HAACP = hazard analysis critical control points)
Seminar 9

Swine Production and Medicine for Veterinary “Students”

Date: Sunday, March 11, 2012
Time: 8:00 AM – 12:00 PM
Location: Centennial E (third level)
Fee: $95.00; No charge for veterinary students or 2010 or 2011 DVM graduates
Seminar co-chairs: Jeremy Pittman, Angie Supple

Description:
The goal of this year’s student pre-conference seminar is to provide information in areas we feel are essential for new and recent graduates based on the experiences of recent graduates. This seminar will supplement the students’ veterinary curriculum, and while focused on swine, the concepts are applicable to all fields of veterinary medicine. The seminar will include topics on development of differential disease lists, interpretation of diagnostic reports and “putting it all together.” A popular component will return: an interactive case study where students will work step-wise through a case in small groups. To end the seminar, we will have an open question and answer session with a panel of recent graduates representing various areas of the industry.

Not just for students! While the session is geared towards students, we strongly feel the information and interaction is applicable to all members of AASV.

8:00  Differentials, diagnostics, and decisions
      Clayton Johnson

8:45  “Poly-ology”: (pol-ee-ol-uh-jee) noun, 1. the process of combining your vet classes to solve a problem; verb, 2. what vets do every day.
      Carissa Odland

9:30  BREAK

10:00 Interactive case study
      Jeremy Pittman and Angie Supple

11:15 Roundtable Q & A for students
      Panel of recent graduates from varied portions of the swine industry

12:00 Seminar concludes
Research Topics

Date: Sunday, March 11, 2012
Time: 8:00 AM – 12:00 PM
Location: Centennial D (third level)
Session chair: Chris Rademacher

8:00 Diagnostic performance of a commercial PRRS serum antibody ELISA adapted to oral fluid specimens: longitudinal response in experimentally-inoculated populations
Apisit Kittawornrat

8:15 Diagnostic performance of a commercial PRRS serum antibody ELISA adapted to oral fluid specimens: field samples
Apisit Kittawornrat

8:30 Economic analysis of PRRS virus elimination from a herd
Derald Holtkamp

8:45 Use of commercial subunit and chimeric vaccines in 5-day-old piglets is effective in protecting from PCV2 viremia and PCV AD in a PCV2, PPV and PRRSV triple challenge model
Tanja Opriessnig

9:00 Evaluation study of interventions for reducing the risk of PRRSV introduction into filtered farms via retrograde air movement (back-drafting) through idle fans
Carmen Alonso

9:15 The effect of PRRS MLV vaccine given by exposure to vaccine saturated ropes
Darwin Reicks

9:30 Evaluating aspirin for reduction of fever and improvement of performance in isowean pigs with uncomplicated PRRS virus infection
Mark Wagner

9:45 BREAK

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<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tr>
<td>10:15</td>
<td>Enrofloxacin treatment affects the colonization stage of <em>Haemophilus parasuis</em> in weaned pigs</td>
<td>Nubia Macedo</td>
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<tr>
<td>10:30</td>
<td>Bacterial infection of the navel cord in neonatal piglets: A follow up on prevalence and clinical outcomes</td>
<td>Laura Greiner</td>
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<tr>
<td>10:45</td>
<td>Antimicrobial susceptibility patterns associated with virulence factors in swine <em>Escherichia coli</em> isolates</td>
<td>Tim Frana</td>
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<td>11:00</td>
<td>Detection of antibodies against influenza A virus nucleoprotein (NP) in porcine oral fluid specimens using a commercial blocking ELISA</td>
<td>Yaowalak Panyasing</td>
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<tr>
<td>11:15</td>
<td>Detection of airborne swine influenza A virus in experimentally infected pigs under the presence of maternally derived immunity</td>
<td>Cesar Corzo</td>
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<td>11:30</td>
<td>Detection of airborne swine influenza A under field conditions</td>
<td>Cesar Corzo</td>
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<td>11:45</td>
<td>Influenza A virus genetic diversity in immune pigs</td>
<td>Carlos Diaz</td>
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<td>12:00</td>
<td>Session concludes</td>
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**Welcome Reception**

Sponsored by: **PFIZER ANIMAL HEALTH**

Sunday, March 11
6:30 – 8:30 PM
Capitol Ballroom (fourth level)
Sunday Session #1

Student Seminar

Date: Sunday, March 11, 2012  
Time: 1:00 – 5:15 PM  
Location: Centennial ABC (third level)  
Session co-chairs: Peter Davies, Alex Ramirez

Sponsored by Pfizer Animal Health

1:00 A pilot study to evaluate the PRRSV carrier status of vasectomized boars in herds attempting PRRSV elimination  
Sam Holst, University of Minnesota

1:15 Use of buffered Swiffer® cloth for collection of PRRSV from the snout and face of growing pigs  
Kevin Dobesh, Iowa State University

1:30 Assessing production parameters and economic impact of swine influenza, PRRS and *Mycoplasma hyopneumoniae* on finishing pigs in a large production system  
Cara Haden, Iowa State University

1:45 *Haemophilus parasuis* seroprofiling with OppA universal test  
Bethany Stammen, Ohio State University

2:00 Indirect transmission of PRRS virus in the farrowing rooms of a 6000-sow herd  
Megan Thompson, University of Minnesota

2:15 Investigation of a novel retrograde air movement intervention to prevent aerosol transmission of PRRSv  
Michael Nagorske, University of Minnesota

2:30 Effect of waste environment on survival of *Brachyspira hyodysenteriae*  
Trevor Schwartz, Iowa State University

2:45 BREAK

Continued on next page
3:15 Early weaning impairs gut mucosal defense and exacerbates clinical disease in F18 *E. coli* infection
Brittney McLamb, North Carolina State University

3:30 An evaluation of Stalosan F powder for deactivation of PRRSv
Casey Rabbe, University of Minnesota

3:45 A new wrinkle in PRRSv PCRs for swine oral fluid specimens
Marisa Rotolo, Iowa State University

4:00 A pilot study evaluating prevalence of PCV2 viremia in the breeding herd
Kelsey Altholz, North Carolina State University

4:15 Comparison of the effect of ceftiofur crystalline free acid and procaine penicillin-G administered at either birth or processing on suckling piglet health and performance
Jonathan Tangen, Iowa State University

4:30 Survey of vitamin D levels in swine serum across different stages of production
Jessica Abbott, Iowa State University

4:45 Evaluation of using oral fluids from *Mycoplasma hyopneumoniae* positive gilts to acclimate weaning age pigs
Emily Kuntz, University of Illinois

5:00 Evaluation of sample collection and handling strategies to increase success of PRRSv-ORF5 sequencing in oral fluids
Paul Thomas, Iowa State University

5:15 Session concludes
Sunday Session #2

Industrial Partners

Date: Sunday, March 11, 2012
Time: 1:00 – 5:00 PM
Location: Centennial D (third level)
Session chair: Isabelle Moreau

1:00  Laboratory studies on Circumvent\textsuperscript{®} PCV M combination \textit{Mycoplasma hyopneumoniae} porcine circovirus type 2 vaccine  
Speaker: Brad Thacker  
Sponsor: MERCK ANIMAL HEALTH

1:15  Field evaluations of Circumvent\textsuperscript{®} PCV M: combination \textit{Mycoplasma hyopneumoniae} and porcine circovirus type 2 vaccine  
Speaker: Brad Thacker  
Sponsor: MERCK ANIMAL HEALTH

1:30  Scientific and practical considerations regarding the use of a novel, injectable anti-infective in swine: Zuprevo\textsuperscript{®} from Merck Animal Health  
Speaker: Timothy Kniffen  
Sponsor: MERCK ANIMAL HEALTH

1:45  Effects of administering non-steroidal anti-inflammatory drugs (aspirin or ibuprofen) through the water as possible interventions to mitigate the adverse effects of vaccination on nursery pig performance  
Speaker: Scott Fry  
Sponsor: AKEY

2:00  Mycotoxin solutions from Novus International Inc. mitigate the negative effects of deoxynivalenol on pigs  
Speaker: Karen Lehe  
Sponsor: NOVUS INTERNATIONAL

2:15  Tylan premix impact on Full Value Pig metrics  
Speaker: Ginger Pelger  
Sponsor: ELANCO ANIMAL HEALTH

Continued on next page
Sunday Session #2

2:30 Evaluation of fecal shedding by a high-throughput qPCR assay in a *Lawsonia intracellularis* challenge
Speaker: Dana Beckler
Sponsor: ELANCO ANIMAL HEALTH

2:45 BREAK

3:15 Utilization of a blend of novel feed ingredients improves lactating and reproductive performance of sows during summer heat stress
Speaker: Joseph Hahn
Sponsor: ADM ALLIANCE NUTRITION

3:30 Aivlosin® (tylvalosin) a new oral macrolide developed for veterinary use in swine
Speaker: Elizabeth Abbott
Sponsor: ECO ANIMAL HEALTH

3:45 A molecular approach to the characterization and intra-species differentiation of porcine *Pasteurella multocida* strains associated with pneumonia and progressive atrophic rhinitis
Speaker: Boh Chang Lin
Sponsor: MVP LABORATORIES

4:00 A review of recent supplemental iron industry practices and current usage of Uniferon® 200 (iron dextran complex injection, 200mg/ml) in baby pigs
Speaker: Herschel Gaddy
Sponsor: PHARMACOSMOS

4:15 Effect of Solutein™ given to boars in isolation on discard rate and sperm quality
Speaker: Darwin Reicks
Sponsor: APC

4:30 Efficacy of PCV2 vaccination with Circovac® under Mexican conditions
Speaker: Rodolfo Sanchez
Sponsor: MERIAL

4:45 Impact of sow longevity on lifetime performance
Speaker: Sasha Gibson
Sponsor: PigCHAMP

5:00 Session concludes
Sunday Session #3

Industrial Partners

Date: Sunday, March 11, 2012
Time: 1:00 – 5:00 PM
Location: Centennial E (third level)
Session co-chairs: Tom Gillespie, Erin Johnson

1:00 Updated reagents for amplification of a new North American porcine reproductive and respiratory syndrome virus strain
Speaker: Cate O’Connell
Sponsor: LIFE TECHNOLOGIES

1:15 The effects of dietary bacitracin on gut health and performance in heat stressed pigs
Speaker: Adam Moeser
Sponsor: PFIZER ANIMAL HEALTH

1:30 Fostera PCV2 efficacy
Speaker: Greg Nitzel
Sponsor: PFIZER ANIMAL HEALTH

1:45 PRRS attenuation of a virulent North American PRRS virus isolate on CD163-expressing cell lines, and demonstration of efficacy against a heterologous challenge
Speaker: Jay Calvert
Sponsor: PFIZER ANIMAL HEALTH

2:00 The positive effect of genomic selection on genetic progress
Speaker: John Sonderman
Sponsor: DANBRED NORTH AMERICA

2:15 Use of statistical process control analysis and a pro forma spreadsheet to evaluate the effects of Regano in gestation and lactation diets on sow enteric health and piglet performance
Speaker: Thomas Gillespie
Sponsor: RALCO ANIMAL HEALTH

Continued on next page
2:30 Review of the Phibro Animal Health *Brachyspira* spp survey project  
**Speaker:** Douglas Weiss  
**Sponsor:** PHIBRO ANIMAL HEALTH

2:45 BREAK

3:15 *Clostridium difficile* antitoxin in neonatal swine  
**Speaker:** David Carter  
**Sponsor:** MG BIOLOGICS

3:30 A comparison of injection site lesions and performance differences in nursery pigs vaccinated with PCV2-*Mycoplasma hyopneumoniae* combination vaccines  
**Speaker:** Erin Johnson  
**Sponsor:** BOEHRINGER INGELHEIM VETMEDICA

3:45 Evaluation of airborne shedding of Ingelvac PRRS modified live vaccine from growing pigs raised under commercial conditions  
**Speaker:** Paul Yeske  
**Sponsor:** BOEHRINGER INGELHEIM VETMEDICA

4:00 The effect of PCV2 vaccination on semen quality in mature breeding boars  
**Speaker:** Amanda Sponheim  
**Sponsor:** BOEHRINGER INGELHEIM VETMEDICA

4:15 Reviewing skip-a-heat  
**Speaker:** Juan Carlos Pinilla  
**Sponsor:** PIC NORTH AMERICA

4:30 Mixed-sex vs. split-sexed penning. Does it matter?  
**Speaker:** Gene Shepherd  
**Sponsor:** PIC NORTH AMERICA

4:45 The many uses of CDCD pigs in human research  
**Speaker:** Rexanne Struve  
**Sponsor:** STRUVE LABS

5:00 Session concludes
Sunday Session #4

Industrial Partners

**Date:** Sunday, March 11, 2012  
**Time:** 1:00 – 5:15 PM  
**Location:** Centennial FGH (third level)  
**Session co-chairs:** Michael Strobel, Keith Erlandson

1:00  
**Electronic sow feeding; Individual animal care in a group-housed barn**  
**Speaker:** Jeff Schoening  
**Sponsor:** AUTOMATED PRODUCTION SYSTEMS

1:15  
**Commercial test herd use: Data partnership to increase genetic progress in prolificacy and longevity**  
**Speaker:** Justin Fix  
**Sponsor:** NATIONAL SWINE REGISTRY

1:30  
**The effect of topical anti-infective application at castration and tail docking of baby pigs versus doing nothing**  
**Speaker:** Michael Strobel  
**Sponsor:** VETERINARY PROVISIONS and AURORA PHARMACEUTICAL

1:45  
**The evaluation of Wean-D on suckling pig performance**  
**Speaker:** Aaron Schaffer  
**Sponsor:** CARTHAGE VETERINARY SERVICE/INNOVATIVE SWINE SOLUTIONS

2:00  
**Evaluation of the efficiency of one dose of autogenous MJPRRS® vaccine in reducing PRRS virus replication and mortality in PRRS naive 21-day old pigs prior to and during viremia**  
**Speaker:** Mark Wagner  
**Sponsor:** MJ BIOLOGICS

2:15  
**Electrostatic particle ionization (EPI) improves nursery pig performance and air quality**  
**Speaker:** Chris Rademacher  
**Sponsor:** BAUMGARTNER ENVIRONICS

2:30  
**Unique strategies to address bacterial contamination of boar semen**  
**Speaker:** Isaac Huerta  
**Sponsor:** MAGAPOR
Sunday Session #4

2:45  BREAK

3:15  What AVMA PLIT can do for you and your business
Speaker: Rodney Johnson
Sponsor: AVMA PLIT

3:30  Nursery, finishing and wean-to-finish benchmarking analysis
Speaker: Tom Stein
Sponsor: METAFA RMS

3:45  Protection against swine influenza virus following replicon particle vaccination
Speaker: Ryan Vander Veen
Sponsor: HARRISVACCINES

4:00  Replicon particle administration prior to challenge reduces PRRSV viremia
Speaker: Mark Mogler
Sponsor: HARRISVACCINES

4:15  Impact of in-feed antibiotic regimens on pig performance and expression of clinical and subclinical diseases
Speaker: Michael Brumm
Sponsor: NOVARTIS ANIMAL HEALTH

4:30  Impact of Denagard® plus chlortetracycline in pigs on improving disease control as measured by improved growth performance
Speaker: Keith Erlandson
Sponsor: NOVARTIS ANIMAL HEALTH

4:45  Examining the impact of water line cleaning, disinfection, and pH reduction on nursery pigs
Speaker: Andrea Pitkin
Sponsor: PRESERVE INTERNATIONAL and IVESCO

5:00  Fat-soluble vitamin needs for nursing and weaned pigs
Speaker: Rob Stuart
Sponsor: STUART PRODUCTS

5:15  Session concludes
Veterinary Student Posters

Location: Centennial Foyer (third level)
Date: Sunday, March 11
Time: 12:00 PM – 5:00 PM
Authors present: 12:00 – 1:00 PM
Date: Monday, March 12
Time: 9:00 AM – 5:00 PM

Sponsored by Pfizer Animal Health

1. Evaluating the response of pigs vaccinated with two half and two full doses of Circumvent® PCV from sows vaccinated with Circumvent PCV prefarrowing
Natalie Baker, Purdue University

2. Making lemonade from lemons: a case study of eradicating PRRS from a naïve 650 sow two-site farm after an acute PRRS outbreak and simultaneously eliminating Mycoplasma hyopneumoniae
Joshua Barker, Mississippi State University

3. Using field serum samples to compare qualitative results between Lawsonia intracellularis ELISA and IPMA at the individual and herd levels
Brian Bishop, Iowa State University

4. Detection of PRRSV and SIV in oral fluids from pigs one week postweaning
Shamus Brown, Iowa State University

5. Does maternally-derived immunity or PCV2 viremia adversely affect PCV2 vaccination response?
Paisley Canning, University of Guelph

6. Comparing feed efficiency and reproductive performance of gestating sows housed in conventional and group gestation
Paisley Canning, University of Guelph

7. Effect of joint sampling technique on bacterial load in synovial fluid samples of swine in a commercial setting
Deanne Day, Iowa State University

Continued on next page
8. Surveillance of *Brachyspira hyodysenteriae* in sows and suckling piglets  
   Joshua Duff, North Carolina State University

9. Identification of a flow-based *Salmonella* challenge using a multi-site necropsy survey in a swine production system  
   Jordan Graham, Iowa State University

10. Comparison of early wean to finish mortality diagnoses between trained veterinary student interns and a diagnostic laboratory  
    Aubrey Hauswirth, Iowa State University

11. Comparison of various diagnostic samples as a means of diagnosing *Mycoplasma hyosynoviae*  
    Jared Jacobson, Iowa State University

12. Hypernatremic dehydration of newborn piglets secondary to insufficient lactation  
    Attila Mihály Kertész, Szent István University, Budapest

13. Is diarrhea preceded by changes in the normal intestinal microbiota?  
    Heather Kittrell, Louisiana State University

14. A comparison of tracheobronchial, oropharyngeal, and nasal swabs to determine the *Mycoplasma hyopneumoniae* status in suckling piglets  
    Kurt Kuecker, Iowa State University

15. Effectiveness of clove oil (*Eugenia aromaticum*) as an anthelmintic  
    Amy Kunkel, Iowa State University

16. Retrospective analysis of pig condemnation data: Implications for national disease surveillance  
    Jeffrey Ling Min Than, Massey University
17. Outlining the need for better sow hoof management: A study into the correlations between long phalanges and reproductive performance
   Wesley Lyons, University of Tennessee

18. Modification of swine oral fluid samples to enhance the sensitivity for detecting porcine reproductive and respiratory syndrome virus (PRRSv) isolation and genomic sequencing
   Daren Miller, Purdue University

19. The role of colostral immunity in reducing PRRS virus replication and its impact on survivability in the suckling pig
   Michael Nagorske, University of Minnesota

20. Characterization of pre-wean mortality in a sow farm
    Amelia Naher, Washington State University

21. Diagnosis of Mycoplamsa hyorhinis and Mycoplamsa hyosynoviae in pre-slaughter animals by serology and real-time PCR
    Brent Pepin, Iowa State University

22. Prevalence of shoulder sores on three sow farms
    Anna Petrowiak, University of Minnesota

23. Risk assessment of PRRS vaccine virus transmission from a vaccinated nursery to a PRRSv negative sow farm through weaned pig trailers
    Casey Rabbe, University of Minnesota

24. Evaluation of rope chewing method to acclimate PRRS virus for replacement gilts
    Abigail Redalen, University of Minnesota

25. Estimating the role of geography as a risk factor for porcine reproductive and respiratory syndrome virus infection in the growing pig
    Caleb Robb, Iowa State University

Continued on next page
Veterinary Student Posters

26. Impact of number of females per pen on fallout rate in group gestation
   Elissa Schlueter, University of Minnesota

27. Detection of *Mycoplasma hyopneumonia* cell-mediated immunity in a field case study
   Megan Schnur, Purdue University

28. An evaluation of the effects of environmental enrichment on the incidence of 2-week pre-farrow vulva biting in a pen-gestated sow farm with individual electronic sow feeders
   Michael Slattery, Iowa State University

29. Use of fine needle aspiration and cytology to describe injection site lesions post-PCV2 vaccination
   Renee Taphorn, Iowa State University

30. Finding the keepers: The influence of observed parameters on gilt retention and productivity
    Lisa Thompson, North Carolina State University

31. Automated control and synchronization of gilt inseminations via electronic sow feeding
    Jonathan Van Blarcom, University of Pennsylvania

32. Patterns of pig behavior relevant to oral fluid sample collection
    Drew White, Iowa State University
Research Topics Posters

Location: Centennial Foyer (third level)
Date: Sunday, March 11
  Time: 12:00 PM – 5:00 PM
Authors present: 12:00 – 1:00 PM
Date: Monday, March 12
  Time: 9:00 AM – 5:00 PM

1. Visualisation and estimation of pig losses due to disease (PRRS) or other management problems
   Andreanne Caron

2. Influenza viruses from swine with increased genetic diversity
   Susan Detmer

3. Adaptation of a commercial PRRS serum antibody ELISA to oral fluid specimens
   Apisit Kittawornrat

4. Evaluation of cross-protection of FluSure XP® against a heterologous gamma cluster H1N1 swine influenza virus challenge
   Mike Kuhn

5. Comparison of whole herd exposure programs to produce PRRSv negative offspring from PRRSv positive breeding herds
   Daniel Linhares

6. New discoveries in anti-PRRSV immunity
   Michael Murtaugh

7. Comparison of serological assays for Actinobacillus pleuropneumoniae (serotypes 1-9) using serum from pigs experimentally infected with APP or vaccinated with APP bacterins
   Tanja Opriessnig

8. Herd closure for 140 days after PCV2 exposure stabilizes the population
   Tanja Opriessnig

Continued on next page
9. Automated feedback of autogenous pathogens in large pen gestation to reduce piglet diarrhea
   Thomas Parsons

10. Effect of Denagard® liquid concentrate on plasma and milk concentrations of tiamulin in sows
    Paul Pitcher

11. Novel PRRSV ORF5a protein is not immunoprotective but drives GP5 glycosylation
    Sally Robinson

12. PCV2 shedding after challenge by infected semen in PCV2 vaccinated and non-vaccinated conventional gilts
    Giuseppe Sarli

13. The incomplete elimination of PRRS virus using traditional methods; A retrospective case study in 7 herds
    Gordon Spronk
Industrial Partners Posters

Location: Centennial Foyer (third level)
Date: Sunday, March 11
Time: 12:00 PM – 5:00 PM
Authors present: 12:00 – 1:00 PM
Date: Monday, March 12
Time: 9:00 AM – 5:00 PM

1. Recent developments in euthanasia equipment
   Presenter: Clive Scrivens
   Sponsor: ACCLES & SHELVOKE

2. The effect of space and feeder type on grow-finish performance
   Presenter: Darwin Kohler
   Sponsor: BABCOCK GENETICS

3. An ELISA kit (Swinecheck mix-APP®) to detect serum antibodies to the most prevalent serotypes of Actinobacillus pleuropneumoniae
   Presenter: André Broes
   Sponsor: BIOVET

4. Control, stabilization and elimination of a 1-4-4 PRRS field strain from a breeding herd utilizing Ingelvac® PRRS MLV as a tool
   Presenter: Noel Garbes
   Sponsor: BOEHRINGER INGELHEIM VETMEDICA

5. PRRSV vaccination trials using replicon particles
   Presenter: Mark Mogler
   Sponsor: HARRISVACCIINES

6. Evaluation of the efficacy of a live yeast (Levucell SB®) against porcine proliferative enteropathy (PPE or ileitis) in a challenge model
   Presenter: Dan Rosener
   Sponsor: LALLEMANN ANIMAL NUTRITION

7. Post-cervical insemination (PCIA): Timing and implementation at the sow farm
   Presenter: Isaac Huerta
   Sponsor: MAGAPOR

Continued on next page
8. Diagnostic and treatment strategies for controlling ascarid infestations in sow herds  
Presenter: Jeremy Pittman  
Sponsor: MERCK ANIMAL HEALTH

9. Effect of a Husbandry Education™ program on high value nursery pigs  
Presenter: Lucina Galina  
Sponsor: PFIZER ANIMAL HEALTH

10. Preventing iron deficiency by avoiding an iron gap in modern pig production  
Presenter: Stefaan Van Gorp  
Sponsor: PHARMACOSMOS
Visit and enjoy a continental breakfast with other AASV spouses, courtesy of AASV. Come, make new friends and catch up with old acquaintances!

Spouse Hospitality Suite

Monday, March 12
Time: 7:00 – 9:00 AM
Location: Agate ABC
(third level)

Spouse Tour
AQUARIUM ADVENTURE & LUNCHEON

Monday, March 12
Time: 9:30 AM – 2:30 PM
Meet in Hyatt Regency Lobby (first level)
at 9:15 AM for departure
Fee: $75.00

Explore one of Denver’s most popular attractions, the Downtown Aquarium. With over a million gallons of underwater exhibits, the aquarium houses more than 500 species of animals. As you learn about the many aquatic ecosystems found around the world, you’ll marvel at the infinite variety and beauty of creatures on display: everything from angelfish and barracuda to stingrays, zebra sharks, and more!

Tour at your own pace, and then join the rest of the AASV attendees in the aquarium restaurant for a delicious buffet luncheon prepared especially for our group. While you dine, you’ll be treated to a floor-to-ceiling view of the 50,000-gallon centerpiece aquarium swimming with more than 100 species of colorful tropical fish.

The registration fee includes transportation, aquarium admission, self-guided tour, buffet luncheon, and applicable taxes and service fees. Space is limited; pre-registration is required!
The AASV Foundation Auction Committee is setting its sights high in the mile-high city of Denver! In an effort to continue the success of recent fundraising auctions, the committee has gathered an impressive array of items for your bidding enjoyment! You’ll find artwork, collectibles, and handcrafted items as well as hunting adventures, sports event tickets, and even a John Deere lawnmower on the auction block! For the complete description of items up for bid, see the printed auction catalog or go to www.aasv.org/foundation.

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

**Silent Auction**
You’ll have the opportunity to bid on a variety of items during the day on Monday, March 12. The bidding will close during the AASV Awards Reception on Monday evening, and we’ll announce the names of the winning bidders at that time.

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

So – Dig Deep, Reach High... and Everybody Bid-a-now!
AASV Foundation RAFFLE

AASV Foundation Auction Chairman Dr. Warren Wilson is always thinking of fun new ways to generate support for the AASV Foundation. Here's one event that everyone can participate in!

We have 500 “Dig Deep & Reach High” buttons and we will sell them at the meeting – while they last – for $10 each. Buy a button (or ten) and show your support for the AASV Foundation!

But that’s not all – each button is numbered. At the conclusion of the AASVF Live Auction on Monday evening, we will draw numbers to award three prizes: $250, $150, and $100. You must be present at the raffle drawing with the winning button to claim the prize.

So dig deep, buy a button, and we will see you at the AASV Foundation Auction!
Monday General Session

Integrating Science, Welfare, and Economics in Practice

**Date:** Monday, March 12, 2012  
**Time:** 8:00 AM – 12:30 PM  
**Location:** Centennial ABCD (third level)  
**Program chair:** Tara Donovan

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8:00  **Howard Dunne Memorial Lecture**  
Integrating science into practice to improve business viability – and getting it right  
Dean Boyd

9:00  **Alex Hogg Memorial Lecture**  
Science, welfare, and economics: Are they cornerstones or just a balancing act?  
Lisa Tokach

10:00  **BREAK**

10:30  **Swine immunology: What does it take to make the immune response “take”?**  
Chris Chase

11:15  **Evidence-based population medicine: Reactive and proactive decision making in a commercial setting**  
Daniel U. Thomson

12:05  **The behavior of the diseased or injured pig: How do we aid convalescence and improve pig welfare?**  
Suzanne Millman

12:30  **LUNCHEON**

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**AASV Luncheon**  
Sponsored by:  
BOEHRINGER INGELHEIM VETMEDICA, INC.

Monday, March 12  
12:30 – 2:00 PM  
Capitol Ballroom (fourth level)
Monday Session #1

Rotavirus and Dysentery: Physiology, Immunology, and Practical Knowledge

Date: Monday, March 12, 2012
Time: 2:00 – 5:30 PM
Location: Centennial ABCD (third level)
Session chair: Brian Payne
Moderator: Adam Moeser

2:00 Physiology and immunology of the gut
Adam Moeser

2:30 Rotavirus: Viewpoint of a diagnostician
Kurt Rossow

3:00 Rotavirus: Practical control and treatment
Luc Dufresne

3:30 BREAK

4:00 Dysentery: Strengths and limitations of current Brachyspira diagnostic methods
Eric Burrough

4:30 Dysentery: Practical control and treatment
Egan Brockhoff

5:00 Roundtable Q & A
All speakers

5:30 Session concludes

AASV Awards Reception

Sponsored by: ELANCO ANIMAL HEALTH
Monday, March 12
6:30 – 8:30 PM
Capitol Ballroom (fourth level)
Respiratory and Systemic Disease

**Date:** Monday, March 12, 2012  
**Time:** 2:00 – 5:30 PM  
**Location:** Centennial E (third level)  
**Session chair:** Deborah Murray

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<tr>
<th>Time</th>
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<tr>
<td>2:00</td>
<td>PCV2 infection/disease in the breeding herd:</td>
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<td>An update</td>
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<td>Darin Madson</td>
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<td>2:15</td>
<td>PCV2 vaccination in sows: What other factors to consider?</td>
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<td>Julie Ménard</td>
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<td>2:30</td>
<td>Update on immunology, vaccinology, and diagnostic trends for swine mycoplasmas</td>
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<td>Erin Strait</td>
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<td>2:45</td>
<td><em>Mycoplasma hyorhinis</em>: Not just an incidental finding</td>
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<td>Deborah Murray</td>
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<td>3:00</td>
<td>Managing <em>Mycoplasma hyosynoviae</em> in grow-finish pigs</td>
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<td>Laura Bruner</td>
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<td>3:15</td>
<td>Roundtable Q &amp; A</td>
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<td>Madson, Menard, Strait, Murray, Bruner</td>
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<td>3:30</td>
<td>BREAK</td>
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<td>4:00</td>
<td>Brief overview of flu vaccinology and immunology</td>
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<td>Marie Gramer</td>
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<td>4:15</td>
<td>Pigs and flu: What to do?</td>
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<td>Matt Allerson and Carissa Odland</td>
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<td>4:30</td>
<td>SIV: Sow farm vaccination strategies</td>
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<td>Laura Schulz-Dalquist</td>
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<td>Successful strategies for pushing SIV out of sow farms</td>
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<td>Aaron Lower</td>
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Monday Session #2

5:00  Roundtable Q & A
      Gramer, Allerson, Odland, Schulz-Dalquist, Lower

5:30  Session concludes

COMMERCIAL EXHIBIT
Technical Tables Open

Monday, March 12
9:00 AM – 5:00 PM

Tuesday, March 13
8:00 AM – 12:00 PM

Centennial Foyer
# When Nutrition is the Differential

**Date:** Monday, March 12, 2012  
**Time:** 2:00 – 5:30 PM  
**Location:** Centennial FGH (third level)  
**Session chair:** Rodger Main

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<tr>
<th>Time</th>
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<tr>
<td>2:00</td>
<td>What’s “known” about the effects of nutrition on animal health?</td>
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<td>Rodger Main</td>
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<td>2:30</td>
<td>Today’s economic realities...the game has changed</td>
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<td></td>
<td>Steve Dritz</td>
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<td>3:00</td>
<td>BREAK</td>
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<tr>
<td>3:30</td>
<td>Series of case-based examples:</td>
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<td></td>
<td>DDGS: Nutrient variability can affect performance</td>
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<tr>
<td></td>
<td>Harold Tilstra</td>
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<td>3:50</td>
<td>Metabolic bone disease</td>
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<td></td>
<td>Megan Potter</td>
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<td>4:10</td>
<td>Influence of particle size</td>
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<td></td>
<td>Ian Levis</td>
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<tr>
<td>4:30</td>
<td>What veterinarians should know about feed quality assurance/quality control</td>
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<td></td>
<td>Wayne Cast</td>
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<tr>
<td>5:00</td>
<td>What do I submit and what’s normal?</td>
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<td>Darin Madson</td>
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<tr>
<td>5:30</td>
<td>Session concludes</td>
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## TUESDAY BREAKFAST

**AASV Breakfast and Business Meeting**  
**Date:** Tuesday, March 12  
**Time:** 7:00 – 8:00 AM  
**Location:** Centennial E (third level)
Tuesday General Session

Influenza and PRRS

Date: Tuesday, March 13, 2012
Time: 8:00 AM – 12:00 PM
Location: Centennial ABCD (third level)
Session co-chairs: Tara Donovan, Montse Torremorell

8:00 Global coordination for swine influenza virus surveillance and research: What are we missing from the big picture?
Amy Vincent

Regional Control and Elimination of PRRS

9:00 Regional PRRS elimination update: Where are we, where are we going?
Bob Morrison and Lisa Becton

9:30 What are regional programs trying to accomplish: Control vs elimination? Protocols for advancing on the PRRSV herd classification scale
Jim Lowe

10:15 BREAK

10:45 Toolkit for regional success and some challenges along the way
Noel Garbes

11:05 It’s all about people: The role of community expectations
Dyneah Classen

11:25 Exposing the brutal facts and challenges of PRRSV regional elimination in pig-dense areas
Tim Loula

11:45 Panel discussion and take-home messages: What have we learned from these cases?
All speakers

12:00 Meeting concludes
# Speakers

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
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<tbody>
<tr>
<td>Elizabeth Abbott</td>
<td>London, UK</td>
</tr>
<tr>
<td>Jessica Abbott</td>
<td>Ames, IA</td>
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<tr>
<td>Matt Allerson</td>
<td>Shoreview, MN</td>
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<tr>
<td>Carmen Alonso</td>
<td>St Paul, MN</td>
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<tr>
<td>Kelsey Altholz</td>
<td>Raleigh, NC</td>
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<tr>
<td>Mike Apley</td>
<td>Manhattan, KS</td>
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<tr>
<td>Peter Bahnson</td>
<td>Stoughton, WI</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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<tr>
<td>Mary Battrell</td>
<td>Warsaw, NC</td>
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<tr>
<td>Dana Beckler</td>
<td>Fergus Falls, MN</td>
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<tr>
<td>Lisa Becton</td>
<td>Johnston, IA</td>
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<tr>
<td>Brian Bishop</td>
<td>Ames, IA</td>
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<tr>
<td>Joseph Blondeau</td>
<td>Saskatoon, SK</td>
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<tr>
<td>R. Dean Boyd</td>
<td>Franklin, KY</td>
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<tr>
<td>Egan Brockhoff</td>
<td>Canmore, AB</td>
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<tr>
<td>André Broes</td>
<td>St-Hyacinthe, QC</td>
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<tr>
<td>Shamus Brown</td>
<td>Indiana, IA</td>
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<tr>
<td>Mike Brumm</td>
<td>North Mankato, MN</td>
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<td>Laura Bruner</td>
<td>Belle Plaine, MN</td>
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<td>Eric Burrough</td>
<td>Ames, IA</td>
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<td>Jay Calvert</td>
<td>Kalamazoo, MI</td>
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<td>Paisley Canning</td>
<td>Kitchener, ON</td>
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<td>Andreanne Caron</td>
<td>Quebec, QC</td>
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<tr>
<td>David Carter</td>
<td>Ames, IA</td>
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<tr>
<td>Wayne Cast</td>
<td>Princeton, MO</td>
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<tr>
<td>Chris Chase</td>
<td>Brookings, SD</td>
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<tr>
<td>Dyneah Classen</td>
<td>Carthage, IL</td>
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<tr>
<td>Cesar Corzo</td>
<td>St Paul, MN</td>
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<tr>
<td>Deanne Day</td>
<td>Ames, IA</td>
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<tr>
<td>Susan Detmer</td>
<td>Saskatoon, SK</td>
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<td>Carlos Diaz</td>
<td>St Paul, MN</td>
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<td>Kevin Dobesh</td>
<td>Wahoo, NE</td>
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<td>Carly Dorazio</td>
<td>Oakville, IA</td>
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<td>Steve Dritz</td>
<td>Manhattan, KS</td>
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<td>Joshua Duff</td>
<td>Raleigh, NC</td>
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<tr>
<td>Luc Dufresne</td>
<td>Shawnee Mission, KS</td>
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<td>Keith Erlandson</td>
<td>Roland, IA</td>
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<td>Maria Esteras</td>
<td>Greeley, CO</td>
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<td>Justin Fix</td>
<td>West Lafayette, IN</td>
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<td>Tim Frana</td>
<td>Ames, IA</td>
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<tr>
<td>Scott Fry</td>
<td>Lewisburg, OH</td>
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</tbody>
</table>
Speakers

Herschel Gaddy
Lucina Galina
Noel Garbes
Sasha Gibson
Thomas Gillespie
Jordan Graham
Marie Gramer
Jana Grauerholz-Morgan
Laura Greiner
Cara Haden
Joseph Hahn
Selina Hallan
Donna Harris
Chad Hastad
Aubrey Hauswirth
Dale Hendrickson
Howard Hill
Sam Holst
Derald Holtkamp
Marlin Hoogland
Isaac Huerta
Scott Hurd
Jared Jacobson
Bruce Janke
Clayton Johnson
Erin Johnson
Rodney Johnson
Jason Kelly
Attila Mihály Kertész
Apisit Kittawornrat
Heather Kittrell
Timothy Kniffen
Darwin Kohler
Kurt Kuecker
Mike Kuhn
Amy Kunkel
Emily Kuntz
Karen Lehe
Ian Levis
Boh Chang Lin
Jeffrey Ling Min Than

St Joseph, MO
Hendersonville, TN
Bethany, IL
Fairmont, MN
Rensselaer, IN
Ames, IA
St Paul, MN
Clear Lake, IA
Carthage, IL
Ames, IA
Ames, IA
Austin, MN
Holland, MI
Jackson, MN
Ames, IA
Farmland, IN
Iowa City, IA
Roseville, MN
Ames, IA
Orange City, IA
Minneapolis, MN
Ames, IA
Ames, IA
Carlyle, IL
Mahomet, IL
Chicago, IL
Algona, IA
Kaposvár, HUNGARY
Ames, IA
Baton Rouge, LA
Waukee, IA
Rochester, MN
Ames, IA
Cascade, IA
Ames, IA
Savoy, IL
West Lafayette, IN
Guymon, OK
Omaha, NE
Palmerston North, NEW ZEALAND
Speakers

Daniel Linhares  
Tim Loula  
Jim Lowe  
Aaron Lower  
Wesley Lyons  
Nubia Macedo  
Darin Madson  
Rodger Main  
Brittney McLamb  
Julie Ménard  
Daren Miller  
Suzanne Millman  
Adam Moeser  
Mark Mogler  
Mike Mohr  
Bob Morrison  
Chris Mowerr  
Deborah Murray  
Michael Murtaugh  
Michael Nagorske  
Amelia Naher  
Greg Nitzel  
Cate O’Connor  
Carissa Odland  
Tanja Opriessnig  
Yaowalak Panyasing  
Thomas Parsons  
Ginger Pelger  
Brent Pepin  
Anna Petrowiak  
Juan Carlos Pinilla  
Paul Pitcher  
Andrea Pitkin  
Jeremy Pittman  
Dale Polson  
Megan Potter  
David Pyburn  
Casey Rabbe  
Chris Rademacher  
Alex Ramirez  
Abigail Redalen  
Darwin Reicks

Falcon Heights, MN  
St Peter, MN  
Albers, IL  
Seymour, IL  
Maryville, TN  
St Paul, MN  
Maxwell, IA  
Raleigh, NC  
Ange Gardien, QC  
West Lafayette, IN  
Ames, IA  
Raleigh, NC  
Ames, IA  
Wake Forest, NC  
St Paul, MN  
Ames, IA  
Jackson, MN  
St Paul, MN  
St Paul, MN  
Pullman, WA  
Kalamazoo, MI  
Austin, TX  
Pipestone, MN  
Ames, IA  
Ames, IA  
Kennett Square, PA  
Greenfield, IN  
Ames, IA  
Fairmont, MN  
Hendersonville, TN  
West Grove, PA  
Fairmont, MN  
Wakefield, VA  
Ankeny, IA  
Abilene, KS  
Ankeny, IA  
St Paul, MN  
Ames, IA  
Ames, IA  
Fountain, MN  
St Peter, MN
Amy Richards Hartland, WI
Caleb Robb Ames, IA
Sally Robinson St Paul, MN
Dan Rosener LeMars, IA
Kurt Rossow St Paul, MN
Marisa Rotolo Ames, IA
Hans Rotto Ames, IA
Paul Ruen Fairmont, MN
Robert Salter Lawrence, MA
Rodolfo Sanchez El Marques, MEXICO
Giuseppe Sarli Bologna, ITALY
Nathan Schaefer Iowa Falls, IA
Aaron Schaffer Manhattan, KS
Elissa Schlueter St Paul, MN
Cameron Schmitt Independence, IA
Megan Schnur West Lafayette, IN
Jeff Schoening Assumption, IL
Laura Schulz-Dalquist Lafayette, MN
Trevor Schwartz Ames, IA
Clive Scrivens Sutton Coldfield, UK
Gene Shepherd Hendersonville, TN
Michael Slattery Ames, IA
John Sonderman Columbus, NE
Amanda Sponheim Osage, IA
Gordon Spronk Pipestone, MN
Bethany Stammen New Weston, OH
Tom Stein Burnsville, MN
Erin Strait Gilbert, IA
Michael Strobel Northfield, MN
Rexanne Struve Manning, IA
Rob Stuart Bedford, TX
Angie Supple Algona, IA
Jonathan Tangen Ames, IA
Renee Taphorn Ames, IA
Brad Thacker Columbia, MD
Paul Thomas Ames, IA
Daniel Thomson Manhattan, KS
Lisa Thompson Princeton, NC
Megan Thompson Hayward, MN
Harold Tilstra Luverne, MN
Lisa Tokach Abilene, KS
Jerry Torrison St Paul, MN
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
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<tbody>
<tr>
<td>Matthew Turner</td>
<td>Clinton, NC</td>
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<tr>
<td>Jon Van Blarcom</td>
<td>Columbia Cross Roads, PA</td>
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<tr>
<td>Stefaan Van Gorp</td>
<td>Ukkel-Brussel, BELGIUM</td>
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<td>Ryan Vander Veen</td>
<td>Ames, IA</td>
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<td>Jonathan Zack</td>
<td>Riverdale, MD</td>
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<td>Jeff Zimmerman</td>
<td>Ames, IA</td>
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</table>
THANK YOU TO OUR SPONSORS

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

BOEHRINGER INGELHEIM VETMEDICA
AASV Luncheon
Veterinary Student Poster Awards

ELANCO ANIMAL HEALTH
AASV Awards Reception
AASV Foundation Veterinary Student Scholarships

GLOBALVETLINK
Internet Kiosk

MERCK ANIMAL HEALTH
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NEWSHAM CHOICE GENETICS
Prayer Breakfast

NEWPORT LABORATORIES
and the AASV FOUNDATION
Veterinary Student Travel Stipends

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

PIC
Anniversary Reception
Saturday, March 10

7:00 AM
Registration Desk open
Location: Centennial Foyer
Committee Meetings

7:30 AM
PRRS Risk Assessment Training (page 12)
Location: Mineral A

8:00 AM
ABVP Entrance Examination
Location: Agate A
ABVP Oral Examination
Location: Agate B

1:00 PM
SEMINARS

#1 Applying Evidence Based Medicine (EBM) in Practice (page 14)
Location: Centennial A

#2 Preventing Profit-Robbing Events in Growing Pig Populations (page 16)
Location: Centennial D

#3 Crisis Management (page 18)
Location: Centennial B

#4 Providing Solutions with Impact: Practice Tips with a Twist (page 19)
Location: Centennial E

#5 The Changing Face of Swine Health and Swine Practice around the Globe (page 21)
Location: Centennial C

5:00 – 7:00 PM
PIC 50th Anniversary Reception
Sponsored by PIC
Location: Centennial FGH

7:00 PM
OPEN EVENING
6:30 AM
AASV Student Breakfast
Location: Mineral ABC

7:00 AM
Praise Breakfast
Sponsored by NEWSHAM CHOICE GENETICS and
BOEHRINGER INGELHEIM BROTHERS AND
SISTERS IN CHRIST
Location: Mineral DEFG

Registration Desk open
Location: Centennial Foyer

8:00 AM
Canadian Swine Veterinarians
Location: Granite ABC

SEMINARS

#6 Applied Diagnostics and Algorithms (page 24)
Location: Centennial ABC

#7 Precision Pharming: The Future of Practical
Pharmacology (page 26)
Location: Centennial F

#8 Pork Processing Plant 101 (page 27)
Location: Centennial GH

#9 Swine Production and Medicine for Veterinary
“Students” (page 28)
Location: Centennial E

RESEARCH TOPICS (page 29)
Location: Centennial D
12:00 PM

AASV FOUNDATION LUNCHEON
(Advance registration required)
Location: Mineral ABC

POSTER SESSION OPEN
Authors in attendance: 12:00 – 1:00 PM
Location: Centennial Foyer

Veterinary Student Posters (page 39)
Sponsored by PFIZER ANIMAL HEALTH
Research Topics Posters (page 43)
Industrial Partners Posters (page 45)

1:00 PM

CONCURRENT SESSIONS

#1 Student Seminar (page 31)
Sponsored by PFIZER ANIMAL HEALTH
Location: Centennial ABC

#2 Industrial Partners (page 33)
Location: Centennial D

#3 Industrial Partners (page 35)
Location: Centennial E

#4 Industrial Partners (page 37)
Location: Centennial FGH

6:30 PM – 8:30 PM

WELCOME RECEPTION
Sponsored by PFIZER ANIMAL HEALTH
Location: Capitol Ballroom (fourth level)

8:30 PM – 11:00 PM

STUDENT RECEPTION
Sponsored by MERCK ANIMAL HEALTH
Location: Centennial EFGH (third level)
Monday, March 12

7:00 AM
Registration Desk open
Location: Centennial Foyer

Spouse Hospitality Suite open (page 47)
Location: Agate ABC

Spouse Tour Participants meet in Hyatt Regency Lobby (first level) at 9:15 AM for departure

8:00 AM – 12:30 PM
GENERAL SESSION (page 50)
Location: Centennial ABCD

Howard Dunne Memorial Lecture: Dr. Dean Boyd
Integrating science into practice to improve business viability – and getting it right

Alex Hogg Memorial Lecture: Dr. Lisa Tokach
Science, welfare, and economics: Are they cornerstones or just a balancing act?

9:00 AM – 5:00 PM
COMMERCIAL TECHNICAL TABLES
Location: Centennial Foyer

POSTER SESSIONS
Location: Centennial Foyer

12:30 PM
LUNCHEON
Sponsored by BOEHRINGER INGELHEIM VETMEDICA INC.
Location: Capitol Ballroom (4th level)

2:00 – 5:30 PM
CONCURRENT SESSIONS

#1 Rotavirus and Dysentery (page 51)
Location: Centennial ABCD

#2 Respiratory and Systemic Disease (page 52)
Location: Centennial E

#3 When Nutrition is the Differential (page 54)
Location: Centennial FGH

6:30 PM – 8:30 PM
AASV AWARDS RECEPTION
Sponsored by ELANCO ANIMAL HEALTH
Location: Capitol Ballroom

AASV FOUNDATION AUCTION (page 48)
Tuesday, March 13

7:00 AM
Registration Desk open
Location: Centennial Foyer

BREAKFAST and AASV ANNUAL BUSINESS MEETING
Location: Centennial E

8:00 AM
GENERAL SESSION (page 55)
Influenza and PRRS
Location: Centennial ABCD

8:00 AM – 12:00 PM
COMMERCIAL TECHNICAL TABLES
Location: Centennial Foyer

12:00 PM
MEETING CONCLUDES

1:00 PM
AASV BOARD OF DIRECTORS MEETING
Location: Mineral FG
Plan now to attend the AASV 44th Annual Meeting
March 2-5, 2013
Manchester Grand Hyatt
SAN DIEGO
CALIFORNIA

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 44th Annual Meeting

March 2-5, 2013
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SAN DIEGO CALIFORNIA

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