

**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

Welcome to Phoenix!

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

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Dr. Paul Ruen
1275 Highway 15 South
Fairmont, MN 56031
Tel: 507-238-4456
E-mail: pruen@fmtvets.com

President-Elect

Dr. Randy Jones
3501 Lakeview Trail
Kinston, NC 28504
Tel: 252-527-4960
E-mail: rjones@livestockvet.com

Vice President

Dr. Tara Donovan
E 4614 Hwy 14-60
PO Box 460
Spring Green, WI 53588
Tel: (608) 588-9170 x 9627
E-mail: tdonovan@hanorusa.com

Past President

Dr. R.B. "Butch" Baker
2221 Lloyd Veterinary Medical Center
Iowa State University
Ames, IA 50011 USA
Tel: 515-294-9358
E-mail: rbbaker@iastate.edu

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

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Dr. S. Ernest Sanford
252 Concord Road
London, ON N6G 3H8
CANADA

Technical Tables

Location: Grande Ballroom GHJ

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

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DeWaay Capital Management

Elanco

Fast Genetics

Feedstuffs

Gallant Custom Laboratories

Genetiporc

GlobalVetLink

Harrisevaccines

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.

PRRS Risk Assessment Training

- 7:30** Welcome and introductions
(note the early start time!)
Derald Holtkamp
- 7:45** Application of PRRS Risk Assessment
Egan Brockhoff
- 8:00** Overview of PRRS Risk Assessment
Dale Polson
- 8:45** "How to" Tour of PADRAP
Changing site admin profile, creating a new
production system, setting up a site and sur-
vey, navigating through a survey, duplicating
and taking multiple surveys
Chris Mowrer
- 9:45** BREAK
- 10:00** Hands-on use of the Risk Assessment;
User interview
Dale Polson
- 12:00** Demonstration of pareto chart and the data-
base and benchmarking tool for risk assess-
ment data: Interpreting results
Derald Holtkamp
- 12:30** Training concludes

Seminar 1

Diagnostics

Date: Saturday, March 5, 2011

Time: 1:00 – 5:00 PM

Location: Grande Ballroom F

Fee: \$90.00

Seminar chair: Simone Oliveira

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

- 4:00** Field experiences with peri-weaning failure to thrive syndrome: Clinical case
Mike Eisenmenger
- 4:30** Validation of FTA paper for PRRS virus diagnostics
Montse Torremorell
- 5:00** Seminar concludes

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

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

Seminar 4

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

AASV's Got Talent (Practice Tips)

Date: Saturday, March 5, 2011

Time: 1:00 – 5:00 PM

Location: Grande Ballroom GI

Fee: \$75.00

Seminar chair: Jeff Harker

Seminar Description:

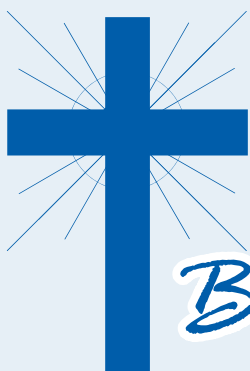
Who says you can't learn while having fun? This session, while entertaining and competitive, will also provide valuable information for attendees only. The busy practitioners in this session have not been required to write papers so you'll have to pay attention and take notes! There will be no celebrity 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



Prayer Breakfast

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!

Reproduction: Tools and Technology for Improving Boar and Sow Reproductive Performance

Date: Sunday, March 6, 2011

Time: 8:00 AM – 12:00 PM

Location: Grande Ballroom CD

Fee: \$90.00

Seminar chair: Rick Tubbs

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

Seminar 7

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

- 10:00** BREAK
- 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 GI

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.

- | | |
|--------------|---|
| 8:00 | Fundamentals of finance
Larry Firkins |
| 8:45 | Ethical dilemma resolution in practice
David Reeves |
| 9:30 | BREAK |
| 9:45 | Case study
Angie Supple |
| 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

- 8:00** Swine influenza active surveillance in the United States
Cesar Corzo
- 8:15** The disease ecology of influenza virus in swine breeding farms
Matt Allerson
- 8:30** Transmission patterns of influenza virus in vaccinated and non-vaccinated pig populations
Anna Romagosa
- 8:45** Influenza antibody detection over time using the novel NP multispecies ELISA assay
Christa Irwin
- 9:00** Detection of influenza virus in air from artificially generated aerosols and experimentally infected pigs
Cesar Corzo
- 9:15** Detection of swine influenza virus in oral fluids at pen level in pig populations
Anna Romagosa
- 9:30** Oregano essential oil improves sow and piglet performance - a summary of three field investigations
Marnie Mellencamp
- 9:45** BREAK
- 10:15** Spread of *Lawsonia intracellularis* in a pure culture seeder pig challenge study
Dana Beckler

- 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 morphology
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



Reception

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

- 3:15** 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
- 3:30** 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
- 3:45** Genetic diversity of porcine reproductive and respiratory syndrome virus in Pennsylvania herds
Andrew Stas, University of Pennsylvania
- 4:00** Optimization of an antibiotic sensitivity assay for *Mycoplasma hyosynoviae* and susceptibility profile of recent field isolates
Kimberly Schultz, Iowa State University
- 4:15** Characterization of antimicrobial resistance of *Salmonella* isolates from swine under varying ceftiofur use
Marlena McCarty, The Ohio State University
- 4:30** 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
- 4:45** 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
- 5:00** Characterization and quantification of risks related to exhibition pigs in a PRRS area-region control & elimination project
Jordan Graham, Iowa State University
- 5:15** 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

- 2:30** Improving fertility through reciprocal translocation identification
Presenter: **Amanda Williams**
Sponsor: **PIC**
- 2:45** BREAK
- 3:15** Elimination of PRCV and H3N2 swine influenza virus from a production network using a 4-week batch farrowing system
Presenter: **Manon St-Hilaire**
Sponsor: **GENETIPORC**
- 3:30** Revisiting creep feeding
Presenter: **Dan McManus**
Sponsor: **LAND O'LAKES PURINA FEED**
- 3:45** Aerosolization and detection of porcine reproductive and respiratory syndrome virus (PRRSV) under different climatic conditions
Presenter: **Tom Duinhof**
Sponsor: **DUTCH ANIMAL HEALTH SERVICE**
- 4:00** PRRS-free herd certification: Description of a western Canada pilot project
Presenter: **Leigh Rosengren**
Sponsor: **SASKATCHEWAN PORK DEVELOPMENT BOARD**
- 4:15** Benefits of combined *Mycoplasma hyopneumoniae* and PCV2 vaccination
Presenter: **Hanne Bak**
Sponsor: **BOEHRINGER INGELHEIM VETMEDICA**
- 4:30** Comparative injection site reactivity of one- and two-dose PCV2-Mhyo vaccine mixtures
Presenter: **Angela Baysinger**
Sponsor: **BOEHRINGER INGELHEIM VETMEDICA**

Industrial Partners #2

4:45 Observations of sustained PRRS control by modified-live vaccination of sows and pigs
Presenter: Edgar Diaz
Sponsor: BOEHRINGER INGELHEIM
VETMEDICA

5:00 Session concludes



Reception

Welcome Reception

Sponsored by:

PFIZER ANIMAL HEALTH

Sunday, March 6th

6:30 – 8:30 PM

Location: Highland Center

Industrial Partners

Date: Sunday, March 6, 2011

Time: 1:00 – 4:45 PM

Location: Grande Ballroom G1

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

Industrial Partners #3

- 3:15** Impact of managing gilt service interval on gilt performance
Presenter: **Sasha Gibson**
Sponsor: **PigCHAMP**
- 3:30** 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**
- 3:45** 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**
- 4:00** Practical review of reproductive testis pathology in the boar
Presenter: **Juan Luis Ubeda**
Sponsor: **MAGAPOR**
- 4:15** Shed/spread and reversion to virulence studies of an SIV RNA vaccine in pigs and mice
Presenter: **Kurt Kamrud**
Sponsor: **HARRISVACCINES**
- 4:30** Swine influenza in Europe: An update on epidemiological data and diagnosis
Presenter: **Thais Vila**
Sponsor: **MERIAL**
- 4:45** 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

Continued next page

Industrial Partners #4

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

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

Student Poster Session

- 8** Field evaluation of an avirulent live *Haemophilus parasuis* vaccine
Joshua Duff, North Carolina State University
- 9** Management of an outbreak of porcine reproductive and respiratory syndrome (PRRS) in a nursery facility
Charlotte Friendship, University of Guelph
- 10** Farm records used as a valuable resource in Victorian piggeries
Brianna Groubert, Purdue University
- 11** 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
- 12** Evaluation of a shoulder decubital ulcer treatment method in sows
Amber Hazel, University of Minnesota
- 13** Eliminating PCV2 viremia in neonatal pigs through vaccination of the replacement gilts
Becky Hobson, Iowa State University
- 14** Penetrating vs. non-penetrating captive bolt euthanasia in nursery pigs
Jared Jacobson, Iowa State University
- 15** *Actinobaculum suis* tube agglutination titer and production parameters of sows
Attila Mihály Kertesz, Szent István University, Budapest
- 16** 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
- 17** 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

Student Poster Session

- 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 Posters

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

Research Topics Poster Session

- 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 Posters

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)

Courtesy 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.

AASV Foundation Auction

Monday, March 7

Everybody Bid-A-Now!



Location: Highland Center

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



Luncheon

AASV Luncheon

Sponsored by:

**BOEHRINGER - INGELHEIM
VETMEDICA, INC.**

Monday, March 7th

12:30 - 2:00 PM

Location: Highland Center

Monday Concurrent Session #1

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



Awards Reception

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

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

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**

Speakers

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

Speakers (continued)

Monte Fuhrman	Canistota, SD
Sasha Gibson	Fairmont, MN
Jordan Graham	Ames, IA
Patrick Graham	Pittsfield, IL
Marie Gramer	St Paul, MN
Brad Gramm	Bloomington, IL
Laura Greiner	Carthage, IL
Brianna Groubert	Lafayette, IN
Abbey Harding	Urbana, IL
John Harding	Saskatchewan, SK
Perry Harms	Rose Hill, NC
Ben Hause	Worthington, MN
Amber Hazel	St Paul, MN
Steve Henry	Solomon, KS
Becky Hobson	Ames, IA
Dallas Hockman	Urbandale, IA
Derald Holtkamp	Ames, IA
Isaac Huerta	Minneapolis, MN
Daniel Hurnik	Charlottetown, PE
Christa Irwin	Ames, IA
Eva Jablonski	Webster City, IA
Jay Jacela	Des Moines, IA
Jared Jacobson	Ames, IA
Wes Jamison	West Palm Beach, FL
Anna Johnson	Ames, IA
Jeremy Johnson	Ames, IA
Kurt Kamrud	Ames, IA
Locke Karriker	Ames, IA
Johannes Kauffold	Kennett Square, PA
Jason Kelly	Algona, IA
Kristy Kenney	Raleigh, NC
Attila Mihály Kertesz	Kaposvár, HUNGARY
Roy Kirkwood	Lansing, MI
Apisit Kittawornrat	Ames, IA
Timothy Kniffen	Waukee, IA
Jim Kober	Holland, MI
Darwin Kohler	Rochester, MN
Seth Krantz	Carthage, IL
Chris Kuster	Geneseo, IL
Karen Lehe	West Lafayette, IN
Brad Leuwerke	Janesville, MN
Boh Chang Lin	Omaha, NE

Speakers (continued)

Merlin Lindemann	Lexington, KY
Daniel Linhares	Falcon Heights, MN
Tim Loula	St Peter, MN
Hannah Lowe	Blacksburg, VA
Aaron Lower	Seymour, IL
Nubia Macedo	St Paul, MN
Darin Madson	Ames, IA
Anna Massie	Urbana, IL
Jeremy Mathers	Chicago Heights, IL
Marlena McCarty	Columbus, OH
Jessica McKinney	Urbana, IL
Dan McManus	Dakota Dunes, SD
Steven McOrist	Sutton Bonington, UK
Dale Mechler	Algona, IA
Allison Meiszberg	Ames, IA
Marnie Mellencamp	St Joseph, MO
Britni Miller	Champaign, IL
Daren Miller	West Lafayette, IN
Adam Moeser	Raleigh, NC
Christine Mowrer	Ames, IA
Ricardo Munoz	Austin, TX
Daniel Nelson	East Bethel, MN
Amanda Ness	Saint Ansgar, IA
Sherrie Niekamp	Clive, IA
Greg Nitzel	Kalamazoo, MI
Tanja Opriessnig	Ames, IA
Mark Papich	Raleigh, NC
John Patience	Ames, IA
Gilbert Patterson	Philadelphia, PA
Lindomar Pena	College Park, MD
Tom Petznick	Norfolk, NE
Mike Pierdon	Elizabethtown, PA
Juan Carlos Pinilla	Hendersonville, TN
Andrea Pitkin	St Paul, MN
Jeremy Pittman	Wakefield, VA
John Prickett	Ogden, IA
Alexander Primus	Minneapolis, MN
Sarah Probst Miller	Monticello, IL
Casey Rabbe	Fairmont, MN
Vicki Rapp-Gabrielson	Kalamazoo, MI
Abigail Redalen	Fountain, MN
David Reeves	Watkinsville, GA

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

Amanda Williams

Mark Wilson

Michael Yaeger

Paul Yeske

Louisa Zak

Jeff Zimmerman

Fitchburg, WI

Hendersonville, TN

Eden Prairie, MN

Ames, IA

St Peter, MN

Belleville, ON

Ames, IA

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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

SUNDAY, MARCH 6

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)



Commercial Exhibit

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*

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.