

# 54<sup>th</sup> AASV Annual Meeting Program

March 4-7, 2023 | Aurora, Colorado

**BE THERE!**

**BE INFORMED**

**BE PREPARED**

**BE A LEADER**

**BE PRESENT**

[aasv.org/annmtg](https://aasv.org/annmtg)

# Message from the Program Chair, Dr. Bill Hollis

## **Be There – AASV 2023**

### ***Why Be There?***

One of my best clients over the last 27 years was a local farmer who served as the president of the first commercial farm we managed. It was a relatively small farm by today's standards, but at the time was attacked as a MEGA FARM. This leader remained friendly, positive, and engaged with the people in our community who really did not want to see change. I remember one of his quotes, "Some of the most important decisions in life and in business will be made by those people who decide to show up!"



I chose "Be There" as the theme for the 2023 AASV Annual Meeting to call out the importance of being present in the moment for all our members. We have critical discussions going on in the sessions and in the halls. We have important deals to be made working through business arrangements with vendors and clients. We also have fellow members in need of peer support. When we choose to "Be There," we have made the decision to engage in the debate while also making the choice to respect the needs of others in our association.

### ***Preconference Seminars***

The program planning committee has chosen several mission-critical topics to dig into during the preconference seminars. Members will be sharing in the opportunity to dive deep into topics such as PRRS changes, antibiotic stewardship, and piglet survivability. Exciting new topics this year feature speakers who will challenge us to consider new technological advancements to improve production, as well as a session on the mental and physical health needs of our membership. Our members also bring forward their own great ideas every year during the practice tips seminar.

### ***Main Sessions and Technical Tables Exhibit***

Exciting speakers have accepted the challenge to lead off our annual meeting: Dr. Egan Brockhoff will present our Howard Dunne Memorial Lecture and Dr. Attila Farkas will give the Alex Hogg Memorial Lecture.

Both speakers will help us think outside our normal everyday veterinary service. Both have exciting personal stories to share and will challenge us to always consider the needs of the pigs in our care, the clients we serve, and the customers who love pork. During breaks throughout the day, we are fortunate to see a return to a large technical table exhibit. With its location adjacent to the main sessions, we should be able to make those time-critical connections during the meeting. We can search out and connect with new technology and products available to better serve our clients. AASV has always stressed the importance of bringing SCIENCE to the meeting. Technical Table exhibitors are challenged to bring data, share important facts, and limit the sales pitch. We expect you will find important data and technology throughout the exhibit.

### ***Stick It Out***

As the AASV Annual Meeting grows with seminars and business meetings on the front end and busy sessions and committee meetings in the middle, it is always a challenge to maintain attendance at the closing Tuesday morning session. Please stick it out through Tuesday! We have an exciting point-counterpoint session of Veterinarian/Nutritionist interactions. We will see the two highly respected systems of AMVC and JBS allow a system veterinarian to share the stage with their nutritionist. What we have all learned to respect is the value that comes from collaboration among scientists. This entertaining exchange will also bring important business considerations to the highest-cost portion of pork production for all of our clients. We are in a time when it is critical to tighten the belt on cost. Please “stick it out” to learn from some of the best in the business.

We look forward to your contributions and participation at the 2023 AASV Annual Meeting. I challenge you to be present and engaged with your peers. We all appreciate the many successes and advancements our organization has enjoyed.

***Please BE THERE for the 2023 AASV Annual Meeting.***

Sincerely,

**Bill Hollis**

Program chair

# PROGRAM COMMITTEE

## Bill Hollis, Program Chair

Mary Battrell  
Tyler Bauman  
Angela Baysinger  
Melissa Billing  
Cesar Corzo  
Marie Culhane  
Jordan Gebhardt  
Jordan Graham  
Clayton Johnson  
Chris Kuster  
Daniel Linhares  
Rodger Main  
Dustin Oedekoven

Jeremy Pittman  
Doug Powers  
Chris Rademacher  
Marisa Rotolo  
Cameron Schmitt  
Mike Senn  
Chris Sievers  
Michelle Sprague  
Chase Stahl  
Amber Stricker  
Matthew Turner  
Jon Van Blarcom

## MOBILE APP & PROCEEDINGS

### MOBILE APP

Keep track of when and where you need to be with the free AASV mobile conference app! Use it to create your personal schedule and “to do” list. It contains the most up-to-date schedule, speaker and exhibitor details, maps of the meeting rooms, and links to proceedings papers. The app is available for download to iOS and Android devices using the code provided in your registration packet.

### PROCEEDINGS

AASV members and conference attendees may download all proceedings papers (including seminar papers) from the AASV website prior to and during the meeting.

For more information:  
[aasv.org/annmtg](http://aasv.org/annmtg)



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

# REGISTRATION & FEES

Register online at [aasv.org/annmtg](https://aasv.org/annmtg)

## ON-SITE REGISTRATION

Registration desk located in Convention Center, Level 1

Saturday, March 4	7:00 AM – 5:00 PM
Sunday, March 5	7:00 AM – 5:00 PM
Monday, March 6	7:00 AM – 5:00 PM
Tuesday, March 7	7:00 AM – 12:00 PM

## FEES

AASV member pre-registration by Feb 10	\$495
AASV member registration after Feb 10	\$595
Non-member veterinarians	\$875
Add'l Tech Table representatives, each (limit 3)	\$875

**AASV student members:** Register for free.

**AASV graduate student members:**

Register for ½ the member rate.

**Nonmember vets, grad students and vet students:**

Apply for AASV membership before you register:

[aasv.org/aasv/member\\_form.pdf](https://aasv.org/aasv/member_form.pdf)

**Non-veterinarians:** Must meet eligibility criteria to attend. See [aasv.org/annmtg/2023/reginfo.php](https://aasv.org/annmtg/2023/reginfo.php).

## REGISTRATION DUE DATES

**February 10:** Last day for pre-registration rate

**February 24:** Last day to register online

**February 25:** Registration CLOSED until on-site Mar 4

## CONFERENCE HOTEL

Gaylord Rockies Resort & Convention Center

6700 North Gaylord Rockies Blvd

Aurora, Colorado 80019

[aasv.org/annmtg/2023/lodging.php](https://aasv.org/annmtg/2023/lodging.php)

## CONTINUING EDUCATION CREDIT

Up to twenty (20) credit hours of veterinary continuing education are available for attendance during the regular meeting sessions on Sunday 8:00 AM through Tuesday 12:00 PM. Four (4) additional credit hours are available for attendance at a Saturday pre-conference seminar.

# TRAVEL ADVISORY

International  
Travelers:

**PRIORITIZE  
BIOSECURITY**



As you travel to the AASV Annual Meeting, do your part to protect the US swine herd from foreign animal diseases, including African swine fever (ASF), classical swine fever (CSF), and foot-and-mouth disease (FMD).

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If you are traveling from a country or have recently visited a country with cases of ASF, CSF, or FMD, remember to prioritize biosecurity:

- Declare international farm visits upon entry into the United States
- Do not bring prohibited foods into the United States
- Follow farm biosecurity measures and downtime requirements (recommended minimum 5 nights with no swine contact) if visiting a US farm
- Do not wear any items, including footwear, from your international farm visit to a US farm

# SATURDAY, MARCH 4

## Daily Schedule

### 7:00 AM

**Registration Desk open**  
Convention Center Level 1

**AASV Committee Meetings**  
Location: Cottonwood Rooms (Level 1)  
See page 12

### 1:00 PM

**PRE-CONFERENCE SEMINARS** (additional fees apply)

**#1 Max Rodibaugh Memorial Practice Tips Seminar:  
Be Transparent** (page 13)  
Location: Cottonwood 2-3 (Level 1)

**#2 PRRSV Monitoring and Diagnostics** (page 15)  
Location: Cottonwood 4-5 (Level 1)

**#3 Pen Gestation: We're There!** (page 17)  
Location: Cottonwood 6 (Level 1)

**#4 Be a Good Steward: Antibiotics and Sustainability**  
(page 18)  
Location: Cottonwood 7 (Level 1)

**#5 Improving Pig Survivability through Research and  
Industry Collaboration** (page 20)  
Location: Cottonwood 8 (Level 1)

**#6 Our Swine Family Health** (page 22)  
Location: Cottonwood 9 (Level 1)

### 5:00 PM

**SEMINARS CONCLUDE**

### 6:00 PM

**Veterinary Student Trivia Event** (page 58)  
Sponsored by: **MERCK ANIMAL HEALTH**  
Location: Maple 3-4-5 (Level 1)



# SUNDAY, MARCH 5

## Daily Schedule

### 6:00 AM

**Yoga Exercise Class** (page 59)

Hosted by: **DSM ANIMAL NUTRITION & HEALTH**

Location: Maple 1-2 (Level 1)

### 6:30 AM

**AASV Student Breakfast**

Location: Colorado A (Level 3)

### 7:00 AM

**Praise Breakfast** (page 59)

Sponsored by: **STUART PRODUCTS**

Location: Willow Lake 3-4-5 (Level 3)

**Registration Desk open**

Location: Convention Center Level 1

### 8:00 AM

**PRE-CONFERENCE SEMINARS** (additional fees apply)

**#7 Boar Stud Health, Biosecurity, and African Swine Fever Preparedness** (page 23)

Location: Cottonwood 6 (Level 1)

**#8 Data Integration to Support Real-Time Decision Making** (page 25)

Location: Cottonwood 4-5 (Level 1)

**#9 New Technologies** (page 27)

Location: Cottonwood 7 (Level 1)

**#10 Swine Medicine for Students** (page 29)

Location: Cottonwood 2-3 (Level 1)

**#11 Understanding Swine Business** (page 30)

Location: Cottonwood 8 (Level 1)

### 8:00 AM

**RESEARCH TOPICS** (page 31)

Location: Maple 3-4-5 (Level 1)



# SUNDAY, MARCH 5

## Daily Schedule

### 12:00 PM

#### POSTER SESSION OPEN

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

Location: Adams Prefunction AB (Level 1)

**Veterinary Student Posters** (page 44)

Funded by the **ZOETIS FOUNDATION**

**Research Topics Posters** (page 46)

**Industrial Partners Posters** (page 49)

### 1:00 PM

#### CONCURRENT SESSIONS

**#1 Student Seminar** (page 33)

Funded by the **ZOETIS FOUNDATION**

Location: Adams B-C-D (Level 1)

**#2 Industrial Partners** (page 35)

Location: Cottonwood 6-7 (Level 1)

**#3 Industrial Partners** (page 38)

Location: Cottonwood 8-9 (Level 1)

**#4 Industrial Partners** (page 41)

Location: Maple 3-4-5 (Level 1)

### 8:30 PM – 11:00 PM

**STUDENT RECEPTION** (page 60)

Sponsored by **MERCK ANIMAL HEALTH**

Location: Willow Lake 3-4-5 (Level 3)

## Security Message

In the event a person or group attempts to disrupt the meeting, report their activities immediately to hotel security personnel or an AASV staff member.

**Do not engage or incite anyone exhibiting disruptive behavior.**



# MONDAY, MARCH 6

## Daily Schedule

### 7:00 AM

#### Registration Desk open

Location: Convention Center Level 1

### 8:00 AM – 12:30 PM

#### GENERAL SESSION: **Be There!** (page 52)

Location: Adams B-C-D (Level 1)

**Howard Dunne Memorial Lecture:** Dr. Egan Brockhoff  
*Be There. Be the leader for the pig, the client, the customer*

**Alex Hogg Memorial Lecture:** Dr. Attila Farkas  
*Seizing opportunity within swine veterinary medicine*

### 9:00 AM – 5:00 PM

#### TECHNICAL TABLES EXHIBIT OPEN (pages 64-66)

Location: Adams A (Level 1)

### 12:30 PM

#### LUNCHEON (page 61)

Co-sponsored by **AASV** and the **AASV FOUNDATION**

Location: Colorado A (Level 3)

### 2:00 – 5:30 PM

#### CONCURRENT SESSIONS

#### #1 **Build Back Biosecurity and Make Health Great Again!** (page 53)

Location: Cottonwood 6-7 (Level 1)

#### #2 **Disease (PRRS and ... )** (page 54)

Location: Cottonwood 8-9 (Level 1)

#### #3 **Foreign Animal Diseases: Be Prepared – Be Aware** (page 55)

Location: Maple 3-4-5 (Level 1)

### 6:30 PM – 8:30 PM

#### AASV AWARDS RECEPTION (page 61)

Sponsored by **MERCK ANIMAL HEALTH**

Location: Colorado A (Level 3)

#### AASV FOUNDATION LIVE AUCTION (page 63)

Location: Colorado A (Level 3)

# TUESDAY, MARCH 7

## Daily Schedule

**7:00 AM**

**Registration Desk open**

Location: Convention Center Level 1

**BREAKFAST and AASV ANNUAL BUSINESS MEETING**

Location: Maple 3-4-5 (Level 1)

**8:00 AM**

**GENERAL SESSION: Important Conversations: Be**

**Engaged and Committed for a Common Goal** (page 56)

Location: Adams B-C-D (Level 1)

**8:00 AM – 12:00 PM**

**TECHNICAL TABLES EXHIBIT OPEN** (pages 64-66)

Location: Adams A (Level 1)

**12:00 PM**

**MEETING CONCLUDES**

## AASV OFFICERS

**President**

Dr. Mike Senn

**Vice President**

Dr. Angela Baysinger

**President Elect**

Dr. Bill Hollis

**Past President**

Dr. Mary Battrell

## DISTRICT DIRECTORS

**District 1** (Northeast US)

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**District 10** (Mexico)

Dr. Cristina Quijano Alvarez

**District 5** (IL, WI)

Dr. Attila Farkas

**District 11** (Canada)

Dr. Susan Detmer

**District 6** (IA)

Dr. Chris Rademacher

# SATURDAY MORNING

## Committee Meetings

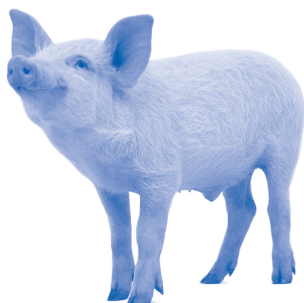
Any AASV member or student member may attend the committee meetings; however, only committee members are eligible to vote. For information on committee activities or to join a committee, see [aasv.org/aasv/committee.php](https://aasv.org/aasv/committee.php).

**Date:** Saturday, March 4

**Location:** Cottonwood Rooms (Convention Center Level 1)  
See room assignments below; map on pages 67-68.

7:15 – 9:45 AM	Meeting room
Early Career	Cottonwood 5
Influenza	Cottonwood 3
Pharmaceutical Issues	Cottonwood 2
Pig Welfare	Cottonwood 6
Pork Safety	Cottonwood 4
PRRS Task Force	Cottonwood 8
Transboundary/Emerging Diseases	Cottonwood 7

10:00 AM – 12:00 PM	Meeting room
Boar Stud	Cottonwood 2
Communications	Cottonwood 6
Diversity, Equity, and Inclusion	Cottonwood 5
Human Health	Cottonwood 7
Nutrition	Cottonwood 8
Operation Main Street	Cottonwood 4
Student Engagement	Cottonwood 3



# SATURDAY SEMINAR 1

## Practice Tips

### Max Rodibaugh Memorial Practice Tips Seminar: Be Transparent

**Date:** Saturday, March 4

**Time:** 1:00 – 5:00 PM

**Location:** Cottonwood 2-3

**Fee:** \$105

**Seminar chair:** Melissa Billing

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Come learn valuable lessons from colleagues without even picking up the phone! In this popular preconference seminar, thirteen AASV members share their knowledge on a wide range of topics that will be applicable to both beginner and veteran practitioners. The presenters will be competing for awards sponsored by AASV.

- 1:00** Welcome and introduction  
**Melissa Billing**
- 1:05** Proactive decision making  
**Jeff Luebbe**
- 1:20** Foreign animal disease: Maintaining humanity during the insanity!  
**Chelsea Hamilton**
- 1:35** Never say “Why me?”  
**Jim Kober**
- 1:50** Nonverbal communication  
**Corinne Bromfield**
- 2:05** Lessons learned from an off-site breeding project  
**Jordan Graham**
- 2:20** Reducing rendering risk  
**Mary Battrell**
- 2:35** REFRESHMENT BREAK
- 3:05** Don’t touch that!  
**Dyneah Classen**

*Continued on next page*

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# SATURDAY SEMINAR 1

## Practice Tips

- 3:20** Mycotoxins: Bins of poison!  
**R.C. Ebert**
- 3:35** Autofill-biotics  
**Andy Kryzer**
- 3:50** Teasing boars: Epididymectomy in farrowing house pigs  
**Terri Specht-Benson**
- 4:05** Be better than before  
**J.D. Fiechtner**
- 4:20** High-volume bronchial alveolar lavage: Long name, quick process for *Mycoplasma hyopneumoniae* exposure  
**Brent Sexton**
- 4:35** What you need to know for the first 5 years of practice  
**Mark Hammer**
- 4:50** Conclusion  
**Melissa Billing**
- 5:00** Seminar concludes

## STUDENT TRIVIA EVENT



Sponsored by:  
**MERCK ANIMAL HEALTH**

Saturday, March 4  
6:00 – 8:00 PM  
Maple 3-4-5 (Level 1)

# SATURDAY SEMINAR 2

## PRRSV Monitoring

### PRRSV Monitoring and Diagnostics

**Date:** Saturday, March 4

**Time:** 1:00 – 5:00 PM

**Location:** Cottonwood 4-5

**Fee:** \$105

**Seminar chair:** Daniel Linhares

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The PRRSV monitoring seminar brings several “flash research updates” from academia on new developments for monitoring and surveillance systems. It also brings perspectives on applications, challenges, and opportunities from practitioners. To put everything together, there will be two panels for Q&A and discussion involving academia, practitioners, and the audience. Come and join us to learn and share your own perspectives!

**1:00** Welcome and introduction  
**Daniel Linhares**

### Sampling strategies: Sample types and sampling considerations

**1:10** Basics of sampling considerations: Allotment over space and time, sample sizes, and age groups  
**Gustavo Silva**

**1:25** Tongue-tip fluids: What they are and how they're used  
**Isadora Machado**

**1:35** Pooling considerations for processing fluids, serum, and family oral fluids  
**Henry Osemeke**

**1:45** Using production and clinical data to screen for PRRSV outbreaks  
**Mafalda Mil-Homens**

**1:55** Serum, tongue tips, processing fluids, and family oral fluids: When to use each one  
**Daniel Linhares**

**2:05** Effect of pen size on oral fluid sampling in grow-finish pigs  
**Grzegorz Tarasiuk**

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# SATURDAY SEMINAR 2

## PRRSV Monitoring

- 2:15** A Hanor practitioner's monitoring plan for naïve and positive unstable herds  
**Jon Tangen**
- 2:30** A Pipestone practitioner's monitoring plan for naïve and positive unstable herds  
**Adam Schelkopf**
- 2:45** Sampling strategies Q&A panel  
**Silva, Machado, Osemeke, Mil-Homens, Linhares, Tarasiuk, Tangen, Schelkopf**
- 3:05** REFRESHMENT BREAK
- Molecular and next-generation tools for PRRS detection or characterization**
- 3:25** Review of tools to discriminate between wild-type and vaccine-like strains  
**Phil Gauger**
- 3:40** What's new in technologies for PRRSV monitoring in pig populations?  
**Carmen Alonso**
- 3:50** PRRSV genotypes: What's new in the lineage system?  
**Kim VanderWaal**
- 4:00** Cracking the whole genome sequencing code: How to visualize and make sense of results  
**Giovani Trevisan**
- 4:10** An AMVC practitioner's perspectives on, experiences with, and wish list for molecular testing for PRRSV  
**Joel Sparks**
- 4:25** A Swine Vet Center practitioner's perspectives on, experiences with, and wish list for molecular testing for PRRSV  
**Paul Yeske**
- 4:40** Molecular tools Q&A panel  
**Gauger, Alonso, VanderWaal, Trevisan, Sparks, Yeske**
- 5:00** Seminar concludes



# SATURDAY SEMINAR 3

## Pen Gestation

### Pen Gestation: We're There!

**Date:** Saturday, March 4

**Time:** 1:00 – 5:00 PM

**Location:** Cottonwood 6

**Fee:** \$105

**Seminar chair:** Michelle Sprague

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As we convert more and more sow farms from stall gestation to pen gestation, I often find myself thinking, “I wish we had known then what we know now.” The primary objective of this seminar is to provide practical information for veterinarians advising clients on transitioning from stalls to pens. Our speakers will be sharing what they have learned through their experiences to help others make this transition more seamlessly.

- 1:00** Pen gestation systems and considerations  
**Jennifer Brown**
- 1:45** California Proposition 12  
**Michael Formica**
- 2:10** Packer perspective on sow gestation housing  
**Tiffany Lee**
- 2:40** REFRESHMENT BREAK
- 3:00** Experiences with conversions to pens and free access stalls  
**Jake Schwartz**
- 3:30** Retrofits: What to do and what not to do  
**Hyatt Frobose**
- 4:15** Practical application: Things to know  
**P.J. Corns**
- 5:00** Seminar concludes

# SATURDAY SEMINAR 4

## Antibiotics and Sustainability

### Be a Good Steward: Antibiotics and Sustainability

**Date:** Saturday, March 4

**Time:** 1:00 – 5:00 PM

**Location:** Cottonwood 7

**Fee:** \$105

**Seminar chair:** Rebecca Robbins

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Everyone is responsible for being a good steward: Doing what's right for people, pigs, and the planet. Come learn about new antimicrobial resistance and stewardship resources for swine veterinarians, establishing metrics to measure antibiotic use and sustainability, and research in these ever-changing fields, and engage in discussion about how the practice of swine medicine can enhance the pork supply chain. You will surely learn something new in one or both areas from our diverse lineup of speakers.

- 1:00** Welcome  
**Rebecca Robbins**
- 1:05** Test your antibiotic stewardship: New resources for swine veterinarians  
**Jessica Bonnema**
- 1:35** Measuring antimicrobial use: Why and how  
**Noelle Noyes**
- 1:55** FARAD (Food Animal Residue Avoidance Databank) resources for swine veterinarians  
**Derek Foster**
- 2:15** Compounding and regulatory hot topics  
**Michael Apley**
- 2:30** Antibiotics Q&A panel  
**Bonnema, Noyes, Foster, Apley**
- 2:45** REFRESHMENT BREAK
- 3:05** Sustainable pork: On-farm sustainability measures  
**Marguerite Tan**
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# SATURDAY SEMINAR 4

## Antibiotics and Sustainability

- 3:25** How to perform research in sustainability and establish benchmarks  
**Erika Johnson**
- 3:45** Sustainable pork: Carbon credits  
**Molly Peterson**
- 4:05** From maximizing productivity to meeting food system expectations: New demands and opportunities  
**Charlie Arnot**
- 4:35** Sustainability Q&A panel  
**Tan, Johnson, Peterson, Arnot**
- 4:50** Wrap-up  
**Rebecca Robbins**
- 5:00** Seminar concludes

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# SATURDAY SEMINAR 5

## Pig Survivability

### Improving Pig Survivability through Research and Industry Collaboration

**Date:** Saturday, March 4

**Time:** 1:00 – 5:00 PM

**Location:** Cottonwood 8

**Fee:** \$105

**Seminar chair:** Jordan Gebhardt

**Co-sponsored by the National Pork Board and USDA FFAR**

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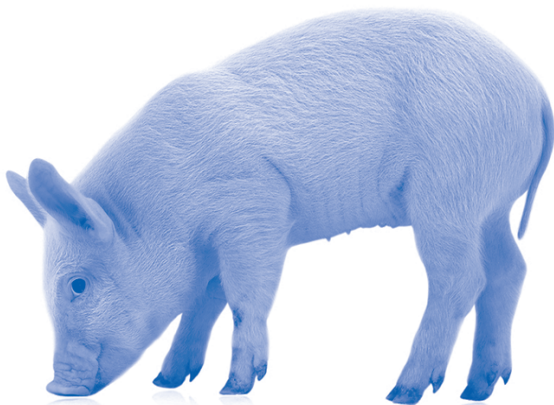
The “Improving Pig Survivability” project is a 5-year project encompassing research, education, and extension efforts with the goal of reducing overall mortality in the US commercial swine industry. The project is funded by the National Pork Board and the Foundation for Food and Agriculture Research (FFAR) and includes researchers from Iowa State University, Kansas State University, and Purdue University. Research efforts seek to identify factors contributing to swine mortality in commercial production, and to develop strategies and information that can be utilized to reduce mortality and maximize pig survivability. This seminar will focus on key findings generated through the first four years of the project, including key takeaway messages to improve pig survivability.

- 1:00** Introduction and overview of the Pig Survivability project  
**Stacie Matchan**
- 1:10** Overview of sow pelvic organ prolapse research  
**Jason Ross**
- 1:30** Is there a genetic basis for pelvic organ prolapse?  
**Jack Dekkers**
- 1:50** Sow robustness: Key areas to maximize sow retention  
**Sergio Canavate**
- 2:10** Early identification of at-risk sows reduces sow mortality  
**Chris Rademacher**

# SATURDAY SEMINAR 5

## Pig Survivability

- 2:30** Managing noninfectious causes of sow mortality  
**Clayton Johnson**
- 2:50** Sow herd Q&A panel  
**Ross, Dekkers, Canavate, Rademacher, Johnson**
- 3:00** REFRESHMENT BREAK
- 3:30** Overview of nutritional, genetic, and management strategies to influence mortality after weaning  
**Mike Tokach**
- 4:00** Postweaning mortality: Key findings through data analysis  
**Edison Magalhaes**
- 4:30** Postweaning Q&A panel  
**Tokach, Magalhaes**
- 4:45** Overview of available resources and producer tools  
**Joel DeRouchey**
- 5:00** Seminar concludes



# SATURDAY SEMINAR 6

## Swine Family Health

### Our Swine Family Health

**Date:** Saturday, March 4

**Time:** 1:00 – 5:00 PM

**Location:** Cottonwood 9

**Fee:** \$105

**Seminar co-chairs:** Emily Byers Taylor and Christa Goodell

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Break from tradition and BE THERE Saturday afternoon to focus on YOU along with your colleagues, partners, and our swine vet family! This seminar is brought to you through a collaboration of the AASV Early Career, DEI (Diversity, Equity, and Inclusion), and Human Health, Safety, and Well-being Committees. A great seminar for AASV members of all ages, experience levels, and backgrounds, it guarantees to stimulate your thoughts and expand your professional development across the categories of physical, mental, financial, and social health.

This interactive seminar promises to be engaging, and your active participation will be greatly encouraged.

**1:00** Our physical health: Tips for keeping swine vets healthy and safe  
**Heather Fowler**

**1:45** Our mental health: Because it matters!  
**Michele Payn**

**2:30** Our financial health: Creating a secure financial future  
**Lance Roasa**

**3:25** REFRESHMENT BREAK

**3:45** Our social health: “Be there” across the generations  
**Panel moderated by Emily Byers Taylor**

**4:15** Our social health: “Be engaged” in fostering inclusive communities  
**Panel moderated by Wesley Lyons**

**5:00** Seminar concludes

# SUNDAY SEMINAR 7

## Boar Stud Issues

### Boar Stud Health, Biosecurity, and African Swine Fever Preparedness

**Date:** Sunday, March 5

**Time:** 8:00 AM – 12:00 noon

**Location:** Cottonwood 6

**Fee:** \$105

**Seminar chair:** Deanne Hemker

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The focus of this preconference seminar is to provide attendees with current information on health challenges, biosecurity procedures, and African swine fever preparedness for boar stud facilities.

The seminar will begin with a discussion on impacts to business continuity from an ASF incursion in the US and how best to limit those. Attendees will be presented novel research on ASF infection dynamics in a boar stud and subsequent semen transmission. The seminar will transition into biosecurity, with practitioners from various sectors of the industry providing specific examples of biosecurity protocols utilized for supply entry, boar entry, and semen delivery. This will be followed by a discussion on PRRSV breaks in boar stud facilities and lessons learned from conducting outbreak investigations. The seminar will conclude with a discussion on semen quality analysis focused on compensable versus non-compensable semen traits.

The information covered in this seminar will be valuable for practitioners who work routinely with boar studs, but also for practitioners with sow farm clients, as these topics have impacts on downstream production.

**8:00** African swine fever working group for business continuity  
**Ben Blair**

**8:30** New: African swine fever boar infection dynamics and semen transmission results  
**Darwin Reicks**

**9:10** Certified Swine Sample Collector Program: Applicability to boar studs  
**Pam Zaabel**

**9:20** Semen traceability and standardized shipping requirements  
**Doug Groth**

*Continued on next page*

# SUNDAY SEMINAR 7

## Boar Stud Issues

- 9:40** African swine fever Q&A panel  
**Blair, Reicks, Zaabel, Groth**
- 9:50** REFRESHMENT BREAK
- 10:20** Boar stud biosecurity: Supply entry, new boar entry, and semen delivery  
10:20 **Megan Hood**  
10:30 **Joe Fent**  
10:40 **Bob Thompson**
- 10:50** Boar stud biosecurity Q&A panel  
**Hood, Fent, Thompson**
- 11:05** PRRSV breaks: Lessons learned  
11:05 **Jeff Harker**  
11:20 **Bob Thompson**
- 11:35** PRRSV breaks Q&A panel  
**Harker, Thompson**
- 11:40** Compensable versus non-compensable semen traits  
**Gary Althouse**
- 12:00** Seminar concludes



# SUNDAY SEMINAR 8

## Data Integration

### Data Integration to Support Real-Time Decision Making

**Date:** Sunday, March 5

**Time:** 8:00 AM – 12:00 noon

**Location:** Cottonwood 4-5

**Fee:** \$105

**Seminar chair:** Gustavo Silva

**Co-sponsored by USDA NIFA**

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The world we live in today continuously generates tons of data from different sources. The swine industry is no exception. This seminar presents and describes tools and technologies already available to veterinarians and producers to integrate different data streams to support real-time decision making. Speakers will share their experiences in the development and application of such tools in the field and share thoughts on how to create the most value from their datasets.

The primary target audience is veterinarians, production managers, and nutritionists. Each presentation includes 3 minutes for questions and answers. Come and join us in this discussion!

- 8:00** Welcome  
**Gustavo Silva**
- 8:02** Experiences moving to cloud data: Return on investment on cyber-infrastructure and benefits  
**Ximena Paz Portal**
- 8:22** Developing a real-time disease classification system based on real-time diagnostics  
**Swaminathan Jayaraman**
- 8:39** Using technology to understand biosecurity compliance: Does it work in the field?  
**Andreia Arruda**
- 8:56** Combining and analyzing streaming environment data for anomaly detection  
**Brett Ramirez**

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*Continued on next page*

# SUNDAY SEMINAR 8

## Data Integration

- 9:13** Integrating operational data to detect early signs of PRRSV introduction into sow farms  
**Mafalda Mil-Homens**
- 9:30** REFRESHMENT BREAK
- 10:00** Forecasting of nursery mortality and identification of the main drivers before placement  
**Edison Magalhaes**
- 10:24** Experiences monitoring wean-to-finish barns 24/7 to make faster decisions  
**Caleb Shull**
- 10:48** Practical experience of using feed software for allocation and harvesting projections  
**Jorge Estrada**
- 11:12** Use of computer vision technology to identify production deficiencies and set marketing strategies  
**David Rosero**
- 11:36** The next frontier of business intelligence for the swine industry  
**Beau Peterson**
- 12:00** Seminar concludes

## STUDENT RECEPTION



*Sponsored by:*

**MERCK ANIMAL HEALTH**

Sunday, March 5

8:30 – 11:00 PM

Willow Lake 3-4-5 (Level 3)

# SUNDAY SEMINAR 9

## New Technologies

### New Technologies

**Date:** Sunday, March 5

**Time:** 8:00 AM – 12:00 noon

**Location:** Cottonwood 7

**Fee:** \$105

**Seminar chair:** Angela Baysinger

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For any new technology to be valuable to pig/pork producers, it must satisfy an operational need. Specific operational needs are defined by use cases. This seminar will cover new technologies from a producer use case perspective. While there are a number of different use case categories, we will focus on four: 1) telehealth, 2) animal behavior, 3) early disease detection, and 4) biosecurity management.

**8:00** Introduction  
**Angela Baysinger**

**8:05** What is required for effective technology adoption into farms, producers, and systems? The big picture  
**Dale Polson**

### Engaging the human-technology interface: Telehealth

**8:35** Telehealth in poultry: Potential for the swine industry  
**David Speller**

**8:45** Digital tools that are transforming quality of care by driving employee engagement, accountability, and ownership  
**Matthew Rooda**

**8:55** Digital health records: What is available and how they work  
**Chris Sievers**

**9:05** Telehealth Q&A panel  
**Speller, Rooda, Sievers**

### Animals, assets, and environment: Animal behavior

**9:15** Technologies for measuring normal and abnormal breeding animal behaviors: Their influence on performance  
**Matt Culbertson**

*Continued on next page*

# SUNDAY SEMINAR 9

## New Technologies

**9:35** Technologies for counting and estimating weight in pig barns  
**David Rosero**

**9:55** Next generation grow-finish swine health and growth monitoring  
**Tami Brown-Brandl**

**10:15** REFRESHMENT BREAK

### **Animals, assets, and environment: Early disease detection**

**10:35** “Wearable” technologies for the early detection and diagnosis of disease episodes  
**Jim Lowe**

**10:55** Complementary audio and sampling technologies for the early detection and diagnosis of disease episodes  
**Carmen Alonso**

### **Animals, assets, and environment: Managing biosecurity**

**11:15** Technical and human considerations when applying technologies to improve human sanitation on swine and poultry farms  
**Jean-Pierre Vaillancourt**

**11:30** Biosecurity from 30,000 feet: Web-based platforms enabling an epidemiological perspective. Above the trees to see the forest(s)  
**Rebecca Robbins**

**11:45** Managing biosecurity Q&A panel  
**Vaillancourt, Robbins**

**11:55** Wrap-up  
**Angela Baysinger**

**12:00** Seminar concludes

# SUNDAY SEMINAR 10

## Swine Medicine for Students

### Swine Medicine for Students

**Date:** Sunday, March 5

**Time:** 8:00 AM – 12:00 noon

**Location:** Cottonwood 2-3

**Fee:** \$105; no charge for 2021 and 2022 DVM graduates

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

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This seminar is designed to supplement the education of students and recent graduates with topics specific to swine medicine, delivered in a way to provide key learning objectives and “take homes.” Topics focus on areas to which students and recent grads don’t usually receive sufficient exposure.

This year, based on feedback from previous sessions, we will focus on 1) the input costs to raise a pig through weaning, nursery, and market, and 2) a basic understanding and evaluation of the key metrics to evaluate on sow farm records. We will conclude the session with interactive cases, where attendees will use their new skills to evaluate some “real world” sow records and determine some potential differentials for the “problem.”

- 8:00** Introduction  
**Jeremy Pittman and Angie Supple**
- 8:05** What does it cost to raise a pig?  
**Chase Stahl**
- 9:00** Sow farm records 101  
**Matt Ackerman**
- 10:00** REFRESHMENT BREAK
- 10:30** Interactive cases: Sow farm records  
**Matthew Ackerman**
- 12:00** Seminar concludes

# SUNDAY SEMINAR 11

## Swine Business

### Understanding Swine Business

**Date:** Sunday, March 5

**Time:** 8:00 AM – 12:00 noon

**Location:** Cottonwood 8

**Fee:** \$105

**Seminar chair:** Tyler Bauman

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It's time to set down *Diseases of Swine* and pick up a copy of "Business 101." This seminar is focused solely on expanding your knowledge beyond the bugs and drugs by cultivating a greater understanding of the business aspects specific to the swine industry. Each speaker brings a unique insight of the swine industry business and will leave you with the tools to BE a swine veterinarian magnate!

- 8:00** Global pork exports update  
**Dan Halstrom**
- 8:40** Understanding the basic concepts of marketing mechanisms  
**Kent Harrison**
- 9:30** Assessing return on investment (ROI) and risk (and other financial jargon)  
**Jeff Diesen**
- 10:00** REFRESHMENT BREAK
- 10:20** Combining health decisions with a business view  
**Ryan Strobel**
- 11:00** Becoming a CEO in the swine industry  
**Brad Heron**
- 11:40** Swine business Q&A panel  
**Halstrom, Harrison, Diesen, Strobel, Heron**
- 12:00** Seminar concludes

# SUNDAY MORNING

## Research Topics

### Research Topics

**Date:** Sunday, March 5

**Time:** 8:00 AM – 12:00 noon

**Location:** Maple 3-4-5

**Session chair:** Chris Rademacher

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- 8:00** Spatiotemporal relative risk distribution of porcine reproductive and respiratory syndrome virus in the southeastern United States  
**Felipe Sanchez**
- 8:15** In-silico characterization of the relationship between PRRSV prevalence at the individual piglet level and prevalence at the litter level in a farrowing room  
**Onyekachukwu Henry Osemeke**
- 8:30** Refining PRRRS-2 genetic classification based on global ORF5 sequences and investigation of geographic distributions and temporal changes  
**Jianqiang Zhang**
- 8:45** Investigating whether PRRSV can reach groundwater after manure-spreading events  
**Joaquin Alvarez-Norambuena**
- 9:00** Hand sanitation protocols to decrease the risk of influenza transmission in pigs and from pigs to people  
**Joaquin Alvarez-Norambuena**
- 9:15** Divergent pathogenicity between highly pathogenic avian influenza A (H5N1) strains in swine  
**Bailey Arruda**
- 9:30** Modeling the introduction and control of African swine fever within commercial swine populations in the United States  
**Abagael Sykes**
- 9:45** REFRESHMENT BREAK

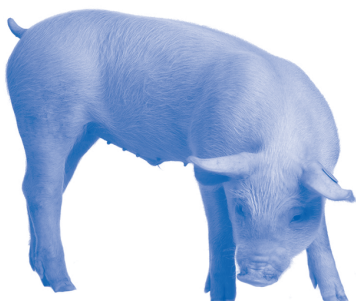
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# SUNDAY MORNING

## Research Topics

- 10:15** *Actinobacillus pleuropneumoniae* serotype 15 outbreak investigation: Comparative whole genome sequencing of pan-North American isolates  
**Alyona Michael**
- 10:30** Dynamics of infection of disease-associated *Streptococcus suis* (DASS) in the lactation phase  
**Robert Mugabi**
- 10:45** Antibody response to rotavirus A and C in gilts and their piglets after prenatal natural planned exposure  
**Deepak Kumar**
- 11:00** Effect of rotavirus vaccination of gilts prior to farrowing following natural planned exposure at breeding on piglet growth, prevalence of diarrhea, and preweaning mortality  
**Lindsey Britton**
- 11:15** Assessing the efficacy of different combinations of time and temperature to inactivate PRRSV and PEDV  
**Mafalda Mil-Homens**
- 11:30** Attenuation phenotypes and protective efficacy of cell culture adapted PEDV non-S INDEL strain  
**Loni Schumacher**
- 11:45** Impact of sow farm PED outbreaks on the downstream nursery performance in the absence of PRRS acute herds  
**Edison Magalhaes**





# SUNDAY SESSION #1

## Student Seminar

### Student Seminar

Funded by the **ZOETIS FOUNDATION**

**Date:** Sunday, March 5

**Time:** 1:00 – 5:15 PM

**Location:** Adams B-C-D

**Session co-chairs:** Andrew Bowman and Justin Brown

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- 1:00** Evaluation of on-farm point-of-need testing using influenza A virus in swine (IAV-S) as a model  
**Adam Tatnall, University of Illinois**
- 1:15** Comparison of IFA versus ELISA for assessing maternal and post-vaccination PCV2 antibody levels  
**Erin Russell, Lincoln Memorial University**
- 1:30** Prevalence of IAV-S in unvaccinated postweaning piglets  
**Alyssa Ruston-Bray, University of Illinois**
- 1:45** Water-based foam depopulation in swine: Evaluating brain activity, animal behavior, and logistical aspects  
**Jack Korenyi-Both, The Ohio State University**
- 2:00** Impact of amine-based cleaner on the control of coccidiosis in piglets  
**Ellen Gibbs, University of Missouri**
- 2:15** Everything that grows is not gold; Evaluating the effect of sampling techniques on culture of disease-associated *Streptococcus suis* from diseased nursery-aged pigs  
**Amber Vegter, Iowa State University**
- 2:30** Evaluation of the IgA response to attenuated-live oral *Lawsonia intracellularis* vaccine  
**Kendall Sattler, Purdue University**
- 2:45** REFRESHMENT BREAK

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*Continued on next page*

# SUNDAY SESSION #1

## Student Seminar

- 3:15** Evaluation of various grueling protocols on nursery pig performance and survivability  
**Carly Bates, Iowa State University**
- 3:30** Mucin 4 is a marker of necrotizing bronchiolitis in influenza A virus infection  
**Rachel Kanefsky, Tufts University**
- 3:45** Comparison of tongue tips, serum, and processing fluids for PRRSV monitoring in neonates  
**Taylor Jansen, Purdue University**
- 4:00** Pharmacokinetics of oral clonazepam and its effect on serum cortisol in growing pigs (*Sus scrofa domesticus*)  
**Gregory Shanks, University of Tennessee**
- 4:15** Comparison of environmental sampling methods to detect PRRSV on contaminated surfaces  
**Hope Dohlman, Iowa State University**
- 4:30** Efficacy of PRRSV vaccination regimens to overcome maternal immunity in PRRSV-positive weaned pigs  
**Adam Steffensmeier, Iowa State University**
- 4:45** Evaluation of porcine reproductive and respiratory syndrome virus maternal antibody interference in commercial wean pig populations using a PRRS modified live virus vaccine  
**Mallory Wilhelm, Iowa State University**
- 5:00** Assessing tongue samples from mortalities as additional PRRSV and IAV-S surveillance on protected nursery and finishing sites  
**Dylan Wulfekuhle, Iowa State University**
- 5:15** Session concludes

# SUNDAY SESSION #2

## Industrial Partners

### Industrial Partners #2

**Date:** Sunday, March 5

**Time:** 1:00 – 5:45 PM

**Location:** Cottonwood 6-7

**Session co-chairs:** Cesar Corzo and Mary Battrell

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- 1:00** The competency impact after initiating a new training program in the boar stud  
**Megan Hood**  
**AgCreate Solutions/Pork Avenue Training Portal**
- 1:15** Epitope analysis confirms a bivalent PCV2 vaccine is relevant to the diversity of current global strains  
**Meggan Bandrick**  
**Zoetis**
- 1:30** Grow-finish model assessing ceftiofur crystalline free acid intervention for control of umbilical infections and hernias in a commercial production system  
**Lauren Glowzinski**  
**Zoetis**
- 1:45** Medium chain fatty acids fed to sows during gestation and lactation and the subsequent effects on the health and performance of the progeny  
**Stacie Crowder**  
**PMI**
- 2:00** Top financial planning tips for veterinarians  
**Andrew Kleis**  
**Insight Wealth Group**
- 2:15** Utilizing hybridization-based next generation sequencing for swine-related pathogen detection  
**Benjamin Hause**  
**Celemics**
- 2:30** Reduction of antibiotic usage in commercial boar semen production through accurate dosage of antibiotics (ADA)  
**John Quackenbush**  
**Minitube USA**

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# SUNDAY SESSION #2

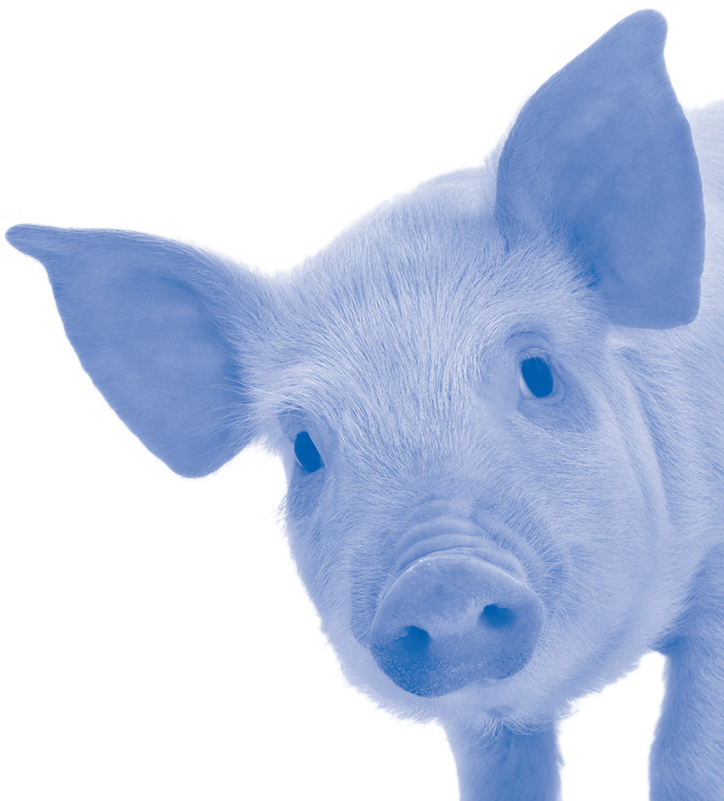
## Industrial Partners

- 2:45** Improved performance feeding Baseline in sows and related impact on inflammation biomarker  
**Tom Petznick**  
**NutriQuest**
- 3:00** REFRESHMENT BREAK
- 3:15** A modified live virus prime/autogenous boost vaccination approach stimulates broadly neutralizing antibodies and improved protection to PRRSV  
**Benjamin Hause**  
**Cambridge Technologies**
- 3:30** Viral isolation and sequencing demonstrate flies and gnats may serve as vectors of swine rotaviruses and sapovirus in nurseries  
**Allison Knox**  
**Central Life Sciences**
- 3:45** Effect of various levels of stabilized fish oil source on sperm quality and production in boars  
**Mark Wilson**  
**Feedworks USA**
- 4:00** Conditions of storage and preincubation of boar seminal doses and its effect on motility and kinetic parameters measured with Magavision SCI  
**Raquel Ausejo**  
**MB Swine Reproduction**
- 4:15** Influenza strategies, from serology to vaccination  
**Pravina Kitikoon**  
**Merck Animal Health**
- 4:30** An evaluation of the use of Sequivity® PPV2 prescription vaccine to reduce the impact of lameness in growing pigs from a high health commercial farm  
**Deb Murray**  
**Merck Animal Health**
- 4:45** Circumvent® CML: A newly licensed commercial vaccine for the protection against PCV2a, PCV2d, *Mycoplasma hyopneumoniae*, and *Lawsonia intracellularis*  
**Brett O'Brien**  
**Merck Animal Health**

# SUNDAY SESSION #2

## Industrial Partners

- 5:00** Biosecurity and biocontainment methodology for swine feed to prevent animal disease  
**Paul Yeske**  
**APC**
- 5:15** Sow herd performance following vaccination of PRRS naive sows with a modified live PRRS vaccine  
**Corrine Frugé**  
**Elanco Animal Health**
- 5:30** Pulmotil® AC used for *Mycoplasma hyopneumoniae* eradication with herd closure  
**Paul Yeske**  
**Elanco Animal Health**
- 5:45** Session concludes



# SUNDAY SESSION #3

## Industrial Partners

### Industrial Partners #3

**Date:** Sunday, March 5

**Time:** 1:00 – 5:45 PM

**Location:** Cottonwood 8-9

**Session co-chairs:** Clayton Johnson and David Pyburn

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- 1:00** The effects of different dietary levels of supplemental vitamin D, 25-OH-D3, and vitamin E on nursery pig performance and vitamin status  
**Jon Bergstrom**  
**DSM Animal Nutrition & Health**
- 1:15** Clinical manifestations of mycotoxin-contaminated feed in swine  
**Sara Hough**  
**DSM Animal Nutrition & Health**
- 1:30** Improving sow livability through selection for better structure and reproductive health  
**Mitch Christensen**  
**Topigs Norsvin USA**
- 1:45** Transforming pig care with PigFlow  
**Matthew Rooda**  
**SwineTech**
- 2:00** Precision pig weights using LeeO  
**Abigail Jenkins**  
**Prairie Systems**
- 2:15** PCR detection of ASFV nucleic acid in oral swabs from clinical and nonclinical sows of three swine farms in Vietnam  
**Christa Goodell**  
**Longhorn Vaccines and Diagnostics**
- 2:30** Evaluation of airborne shedding and production setback postweaning from Pharmgate PRRSGard® vaccine in commercial conditions  
**Erin Kettelkamp**  
**Pharmgate Animal Health**
- 2:45** Comparative efficacy of Aivlosin and tilmicosin for treatment of swine respiratory disease in nursery-age pigs  
**Cary Sexton**  
**Pharmgate Animal Health**
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# SUNDAY SESSION #3

## Industrial Partners

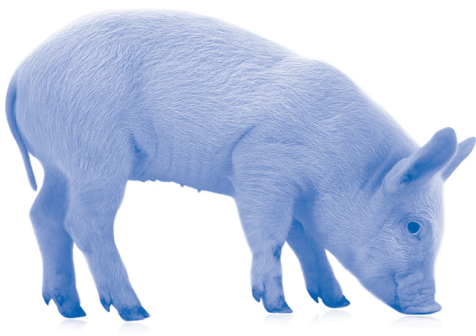
- 3:00** REFRESHMENT BREAK
- 3:15** Impact of nurse sow strategies on preweaning and nursery performance  
**John Sonderman**  
**DNA Genetics**
- 3:30** Enterotoxigenic *E coli* populations across sow herds and neonatal piglets were reduced after using a *Bacillus*-based product  
**Samantha Hernandez**  
**Arm & Hammer**
- 3:45** Efficacy of Tilmovet AC for PRRS control by water medication in nursery pigs  
**Ulrich Klein**  
**Huvepharma**
- 4:00** Impacts of salinomycin and crude protein on coccidiosis-burdened nursery pigs  
**Mitch Nisley**  
**Huvepharma**
- 4:15** Factors affecting different claw lesions in sows: Lessons from a partial least squares approach  
**Lucas Rodrigues**  
**Zinpro Corporation**
- 4:30** Addressing the "why" and "how": Tips for integrating telemedicine into swine veterinary practice  
**Gil Patterson**  
**VetNOW**
- 4:45** Effect of blends of organic acids and monoglycerides on growth performance, diarrhea and systemic inflammation of *Escherichia coli* F18 challenged weaned pigs  
**Ying Chen**  
**Eastman**
- 5:00** VetAssure ATP: Applications for the US pork industry  
**David Pyburn**  
**BioChek**

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# SUNDAY SESSION #3

## Industrial Partners

- 5:15** Identifying and evaluating anti-inflammatory compounds that inhibit African swine fever virus  
**Theresa Lavergne**  
**Natural Biologics**
- 5:30** Time to PRRS negative response in gilts injected with Ivomec  
**Grant Allison**  
**Bimeda**
- 5:45** Session concludes





# SUNDAY SESSION #4

## Industrial Partners

### Industrial Partners #4

**Date:** Sunday, March 5

**Time:** 1:00 – 5:15 PM

**Location:** Maple 3-4-5

**Session co-chairs:** Cameron Schmitt and Taylor Spronk

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- 1:00** Case report of a PCV2d-based vaccine in a clinical PCV2d challenged flow  
**Melissa Billing**  
**Boehringer Ingelheim Animal Health**
- 1:15** DFM Pak® improves manure characteristics to influence environmental and health benefits in the pit, the pen, and in the air  
**Jake Lee**  
**United Animal Health**
- 1:30** Post-weaning feed and water outage event with concurrent mycotoxin exposure additively impacts gut morphology and performance of nursery pigs  
**Julie Mahoney**  
**United Animal Health**
- 1:45** Effect of water enriched with Nextein APF® on weaned pigs after long duration transport under summer conditions  
**Tyler Bauman**  
**TechMix**
- 2:00** Effects of zinc oxide and mannan-rich fraction (Actigen®) effects on nursery swine performance and removals  
**Jose Soto**  
**Alltech**
- 2:15** High-health herd response to activated phenolic molecules, APMTM (GI-Revive™)  
**Andrew Bents**  
**Precision Health Technologies**

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# SUNDAY SESSION #4

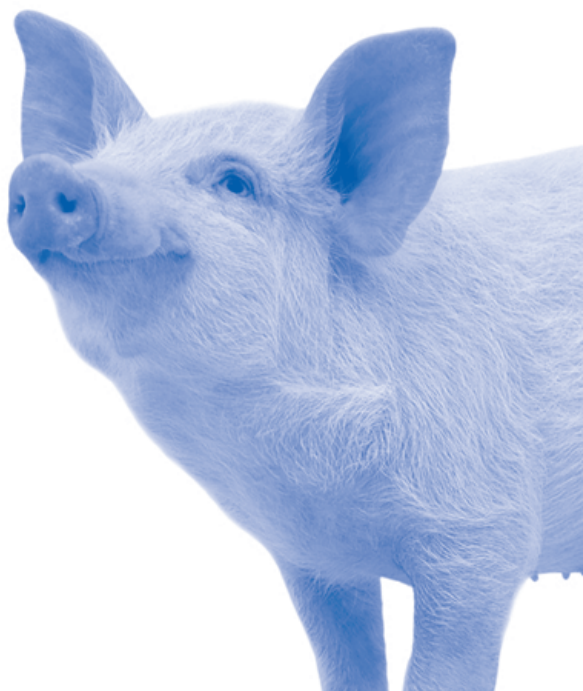
## Industrial Partners

- 2:30** Efficacy of Enterisol Salmonella T/C® in reducing the shedding and colonization of multidrug resistant monophasic *Salmonella enterica* serovar I 4,[5],12:i:-  
**Fernando Leite**  
**Boehringer Ingelheim Animal Health**
- 2:45** A methodology for assessing the economic value of early disease detection in growing pigs  
**Dale Polson**  
**Boehringer Ingelheim Animal Health**
- 3:00** REFRESHMENT BREAK
- 3:15** Evaluation of meloxicam in sows post-farrowing on piglet performance  
**Brian Payne**  
**Veterinary Pharmaceutical Solutions**
- 3:30** Novel virulence-associated gene frequency across capsular serotypes and sequence types in *Streptococcus suis*  
**Steve Tousignant**  
**Newport Laboratories**
- 3:45** Developing a model protocol for tracking antibiotic use and AMR monitoring across a large-scale commercial swine production system: The IMAGINE project  
**Taylor Spronk**  
**National Pork Board**
- 4:00** Virabloc impacts viability of an ASFV surrogate (*Emiliana huxleyi*) virus in feed: Implications for ASFV transmission in today's global supply chain  
**Ashley Wagner**  
**Essential Ag Solutions**
- 4:15** Important concepts on the Swine Monitoring Program  
**Edgar Tapia**  
**IDEXX Laboratories**

# SUNDAY SESSION #4

## Industrial Partners

- 4:30** Overview of the benefits of Furst Protect in sows and nursery pigs  
**Fredrik Sandberg**  
**Furst-McNess Company**
- 4:45** Evaluation of the vaccination in lactation with ERYSENG® PARVO/LEPTO in the follicle genesis, stress-related hormones and other parameters vs a nonvaccinated control group  
**Joaquin Miguel**  
**HIPRA**
- 5:00** Effects of an additional iron dextran injection administered to piglets on hemoglobin, performance, and carcass responses  
**Merlin Lindemann**  
**Pharmacosmos**
- 5:15** Session concludes



# SUNDAY - MONDAY

## Veterinary Student Posters

### Veterinary Student Posters (#1 - #20)

**Funded by the ZOETIS FOUNDATION**

The Zoetis Foundation and AASV provide a \$250 award to each presenter.

**Location:** Adams Prefunction A-B

**Sunday, March 5** 12:00 – 5:00 PM

**Monday, March 6** 8:00 AM – 5:00 PM

Authors present

Sunday

12:00 – 1:00

Posters #1-15 (\*) will be judged in the **POSTER COMPETITION** sponsored by **UNITED ANIMAL HEALTH**

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- \*1. Comparison of high-performing and low-performing suckling pig fecal microbiome  
**Elisha Snezek, University of Georgia**
  - \*2. An investigation of the number of pigs in gestation pens that will chew on a rope during oral fluid collection  
**Brenna Werner, University of Minnesota**
  - \*3. Evaluation of ozone viricidal effects on porcine reproductive and respiratory syndrome virus within semi-truck cabs  
**Alexandra Bishop, Iowa State University**
  - \*4. Serial dilution of serum samples to assess the relative antibody levels generated by ELISA serotests for common swine pathogens  
**Erin Larsen, Lincoln Memorial University**
  - \*5. Investigation of factors associated with the receipt of an etiologic diagnosis for suckling piglets at a veterinary diagnostic laboratory  
**Morgan Johnson, Iowa State University**
  - \*6. Tissue submission quality of nursery-age enteric cases and effect on receiving a diagnosis  
**Lauren Tidgren, Iowa State University**
  - \*7. A field study examining the effects of a novel maternal pheromone on performance and livability of weaned pigs  
**Braden Steidley, Oklahoma State University**
  - \*8. Pharmacokinetics of extravascular maropitant citrate in swine  
**Jessica Gebert, Lincoln Memorial University**
  - \*9. Evaluating the economic impact of an autogenous influenza vaccine in the finishing phase with a pre-post analysis utilizing closeout data  
**Kaci Way, The Ohio State University**
-

# SUNDAY - MONDAY

## Veterinary Student Posters

- \*10. Evaluation of market trailer hygiene and transmission of porcine enteric coronaviruses  
**Sarah Albers, University of Wisconsin**
- \*11. Evaluation of chemical treatments to deactivate PRRSV in water sources  
**Austin Janssen, Iowa State University**
- \*12. Evaluation of the relative PCR cycle times (Ct) of rotavirus A and C in natural planned exposure (NPE) materials, colostrum deprived piglets, and environmental samples  
**Alexis Berte, Iowa State University**
- \*13. Antibiotic use for the treatment of lameness in sows  
**Bridget Cincotta, University of Pennsylvania**
- \*14. Lessons from swine biosecurity outreach programs directed to small producers and show pig exhibitors  
**Juan Hernandez Cuevas, The Ohio State University**
- \*15. Impact of foot trimming on gilt productivity and foot health  
**Amanda Patev, University of Pennsylvania**
- 16. The effect of dietary zinc on *Clostridioides difficile* colonization and pathogenicity in neonatal piglets  
**George DeMers, University of Pennsylvania**
- 17. A survey of rectal temperatures immediately after transport and body weight gain for the first 17 days post placement for weaned pigs transported an extended distance during the summer months  
**Hannah Lathom, North Carolina State University**
- 18. Evaluation of the administration cost of feedback  
**Paul McDonald, Purdue University**
- 19. The effect of nucleoprotein reassortment on influenza A virus transmission in swine  
**Megan Neveau, Iowa State University**
- 20. Serologic profiling and viral monitoring of influenza in a large production system  
**Andrea Prowant, Iowa State University**

# SUNDAY - MONDAY

## Research Topics Posters

### Research Topics Posters (#21 - #48)

**Location:** Adams Prefunction A-B

**Sunday, March 5** 12:00 – 5:00 PM

**Monday, March 6** 8:00 AM – 5:00 PM

Authors present  
Sunday  
12:00 – 1:00

- 
21. Evaluation of sanger sequencing detection of porcine reproductive and respiratory syndrome virus (PRRSV) in in vitro co-infections  
**Joaquin Alvarez-Norambuena**
  22. Fine-scale analysis of influenza A virus in swine reveals persistent clade circulation and limited clade diversity within owners  
**Bailey Arruda**
  23. Detection and localization of atypical porcine pestivirus in the reproductive tract of a persistently infected boar  
**Gyula Balka**
  24. Impact of wean age on *Streptococcus suis* and *Mycoplasma hyorhinis* colonization dynamics during nursery period  
**Alyssa Betlach**
  25. Longitudinal study of atypical porcine pestivirus infection dynamics in pigs from birth to market reveals persistent infection in piglets with congenital tremors  
**Alexandra Buckley**
  26. Use of a viability PCR assay for the detection of *Mycoplasma hyopneumoniae*  
**Albert Canturri**
  27. Prevalence and risk factors for *Lawsonia intracellularis* detection in vaccinated and non-vaccinated swine sites  
**Ting-Yu Cheng**
  28. Study of *Mycoplasma hyopneumoniae* gene mutations associated with antimicrobial resistance in field samples  
**Cipriano De Abreu**

# SUNDAY - MONDAY

## Research Topics Posters

29. Rethinking PCV2 surveillance: Revealing the value of dynamics over time  
**Gillian Greaves**
30. Evaluation of the virucidal activity of Intervention® against PRRSV 1-4-4 L1C and PRRSV 1-7-4  
**Erin Kettelkamp**
31. Progression of the newly emerged PRRSV L1C 144 variant in breeding herds  
**Mariana Kikuti**
32. Tongue tips fluids: a new specimen for PRRSV detection from dead pigs  
**Isadora Machado**
33. Which factors are relevant to identifying high nursery mortality groups under field conditions?  
**Edison Magalhaes**
34. Forecasting swine nursery mortality under field conditions  
**Edison Magalhaes**
35. Porcine reproductive and respiratory syndrome virus encephalitis and myelitis: A retrospective study of cases diagnosed at the Iowa State University Veterinary Diagnostic Laboratory from 2016 to 2022  
**Marta Mainenti**
36. Addressing biocontainment through environmental contamination assessment in farms housing PRRS lineage 1C 1-4-4 positive pigs  
**Claudio Marcello Melini**
37. Evaluation of infectiousness and virulence of the newly emergent and virulent Minnesota PRRS virus variant  
**Claudio Marcello Melini**
38. Ten-year retrospective analysis of bacterial pathogens associated with influenza infections in pigs (2012-2021)  
**Mariana Meneguzzi**

*Continued on next page*

# SUNDAY - MONDAY

## Research Topics Posters

39. Neurosensory lesions in field cases of porcine reproductive and respiratory syndrome virus (PRRSV) infection  
**Alyona Michael**
40. Use of family oral fluid to detect influenza A virus in the breeding herd  
**Daniel Moraes**
41. Effect of storage temperature and time on PRRSV RNA detection by RT-qPCR  
**Berenice Munguia-Ramirez**
42. The effect of freeze-thaw on PRRSV RT-qPCR results  
**Berenice Munguia-Ramirez**
43. The impact of management practices in response to fifty PRRSV herd outbreaks in breed-to-wean herds between 2018 and 2022 in the midwestern US  
**Rodrigo Paiva**
44. Assessment of the risk factors associated with weekly sow mortality rate under the condition of a production system in the midwestern United States during 2019-2021  
**Rodrigo Paiva**
45. Virulence comparison of PRRSV 1-4-4L1C variant strain and other PRRSV strains in experimentally inoculated pigs  
**Gaurav Rawal**
46. Bayesian latent class analysis of the sensitivity and specificity of a novel PCR and indirect ELISA for African swine fever virus antibody  
**Rachel Schambow**
47. Influence of barn fill rate on nursery pig exit weight  
**Haley Schwecke**
48. Vaccination with an *Escherichia coli* F4/F18 vaccine improves piglet performance combined with a reduction in antimicrobial use and secondary infections due to *Streptococcus suis*  
**Frédéric Vangroenweghe**



# SUNDAY - MONDAY

## Industrial Partners Posters

### Industrial Partners Posters (#49 - #71)

**Location:** Adams Prefunction A-B

**Sunday, March 5** 12:00 – 5:00 PM

**Monday, March 6** 8:00 AM – 5:00 PM

Authors present  
Sunday  
12:00 – 1:00

- 
49. Improving composting knowledge and competencies to create an impactful mortality management educational method  
**Sarah Probst Miller**  
**AgCreate Solutions/Pork Avenue Training Portal**
50. A survey of *Streptococcus suis* across sow production and neonatal piglets  
**Samantha Hernandez**  
**Arm & Hammer**
51. Assessment of the hyper-local ambient environment in large pig barns  
**Dale Polson**  
**Boehringer Ingelheim Animal Health**
52. Control of cockroaches in swine facilities with new insect growth regulator Exhalt  
**Gene Spellman**  
**Central Life Sciences**
53. Utilizing lung lesion scoring to monitor swine respiratory disease in a commercial swine farm in the Philippines  
**Mary Grace Alba**  
**Elanco Animal Health**
54. The first swine vaccine to show protection against ileitis, salmonellosis and colibacillosis  
**Curtis Stutheit**  
**Endovac Animal Health**
55. The effect of feeding Salmate DHA+ on sperm production and quality in boars, including field data  
**Darwin Reicks**  
**Feedworks USA**

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*Continued on next page*

# SUNDAY - MONDAY

## Industrial Partners Posters

56. Effects of Furst Strike Direct on mortality and injectable treatments in nursery pigs  
**Fredrik Sandberg**  
**Furst-McNess Company**
57. eCVI integration with AgView from National Pork Board streamlines data sharing  
**J. Tyler Holck**  
**GlobalVetLink**
58. Comparative performance study of three commercial vaccines against *Mycoplasma hyopneumoniae* and porcine circovirus type 2  
**Mike Degroot**  
**HIPRA**
59. Monitoring PCV2 and PCV3 infection  
**Alvaro Hidalgo**  
**IDEXX**
60. Long-term usage of a formaldehyde-based feed mitigant does not have a negative effect on sow performance metrics  
**Dillon Mellick**  
**Kemin Animal Nutrition and Health**
61. Productivity profile in a boar stud in southern Brazil: Genetic index and collection interval  
**Raquel Ausejo**  
**MB Swine Reproduction**
62. Understanding IAV-S diversity over time using the Sequivity® dashboard  
**Channing Sebo**  
**Merck Animal Health**
63. Isolate, antigen concentration, and adjuvants are important when developing autogenous vaccines  
**Steve Tousignant**  
**Newport Laboratories**
64. Biosecurity and biocontainment methodology for swine feed to prevent animal disease  
**Jake Erceg**  
**NutriQuest**

# SUNDAY - MONDAY

## Industrial Partners Posters

65. Effects of an additional iron dextran injection administered to piglets on differential gene expression at weaning  
**James Pierce**  
**Pharmacosmos**
66. The use of Ambitine™ in late finishing diets and the effect on growth performance and carcass measurements  
**Stacie Crowder**  
**PMI**
67. Utilizing feed allocation system (FAS) data to populate AgView for foreign animal disease preparedness  
**J. Tyler Holck**  
**Prairie Systems**
68. Maternal genetics contribute to enhanced, natural robustness to PRRS in finishing pigs  
**Heloiza Irtes**  
**Topigs Norsvin USA**
69. Evaluation of NSAIDs on weaning/vaccination stress and a subsequent PRRS challenge  
**Brian Payne**  
**Veterinary Pharmaceutical Solutions**
70. Towards the identification of a marker of claw quality in sows using partial least squares analysis and classification and regression trees  
**Lucas Rodrigues**  
**Zinpro Corporation**
71. Characterization of the metabolic conditions contributing to agalactia in sows  
**Jamie Studer**  
**Zoetis**



# MONDAY GENERAL SESSION

## Be There!

### Be There!

**Date:** Monday, March 6

**Time:** 8:00 AM – 12:30 PM

**Location:** Adams B-C-D

**Session chair:** Bill Hollis

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- 8:00**    **Howard Dunne Memorial Lecture**  
Be there. Be the leader for the pig, the client,  
the customer  
**Egan Brockhoff**
- 9:00**    **Alex Hogg Memorial Lecture**  
Seizing opportunity within swine veterinary  
medicine  
**Attila Farkas**
- 10:00**    REFRESHMENT BREAK  
Co-sponsored by: **HOG SLAT**
- 10:30**    Ten industry needs you can meet right now, so be  
smart and be prepared ... get involved  
**Gordon Spronk**
- 11:30**    Lessons learned from the poultry industry for  
housing and health  
**Craig Rowles**
- 12:30**    LUNCHEON

## AASV LUNCHEON



*Co-sponsored by:*  
**AASV & AASV Foundation**

Monday, March 6

12:30 – 2:00 PM

Colorado A (Level 3)

# MONDAY SESSION #1

## Biosecurity

### Build Back Biosecurity and Make Health Great Again!

**Date:** Monday, March 6

**Time:** 2:00 – 5:30 PM

**Location:** Cottonwood 6-7

**Session chair:** Amber Stricker

---

- 2:00** Stranger than fiction: PRRS in a remote farm  
**Corrine Frugé**
- 2:20** Outbreak of *Actinobacillus pleuropneumoniae* serotype 15 in central Iowa in the winter of 2021-22  
**Isadora Machado**
- 2:40** Biosecurity: Why do we do it and who do we do it for?  
**Brandi Burton**
- 3:00** Farm Health Guardian: What we have learned so far  
**Brad Chappell**
- 3:20** Biosecurity Q&A panel  
**Frugé, Machado, Burton, Chappell**
- 3:30** REFRESHMENT BREAK  
Co-sponsored by:  
**VETERINARY PHARMACEUTICAL SOLUTIONS**
- 4:00** Impactful investments: Measuring return on investment (ROI) for biosecurity  
**Pete Thomas**
- 4:20** Water biology: The next frontier for biosecurity  
**Gabi Doughan**
- 4:40** Management and facility factors that impact biosecurity and biocontainment  
**Jordan Graham**
- 5:00** Biosecurity: What is the US missing? An international perspective  
**Eveline Willems**
- 5:20** Biosecurity Q&A panel  
**Thomas, Doughan, Graham, Willems**
- 5:30** Session concludes
-

# MONDAY SESSION #2

## Disease

### Disease (PRRS and ... )

**Date:** Monday, March 6

**Time:** 2:00 – 5:30 PM

**Location:** Cottonwood 8-9

**Session chair:** Chase Stahl

---

- 2:00** PRRS: The fight continues  
**Clayton Johnson**
- 2:45** Revenge of *E. coli* – but wait, there’s more ...  
**Deborah Murray**
- 3:30** REFRESHMENT BREAK  
Co-sponsored by:  
**VETERINARY PHARMACEUTICAL SOLUTIONS**
- 4:00** Sapovirus: Diagnosis to solution ... a cooperative success  
**Tom Petznick**
- 4:30** Remind me about *Actinobacillus pleuropneumoniae* (APP)  
**Jon Van Blarcom**
- 5:00** Disease Q&A panel  
**Johnson, Murray, Petznick, Van Blarcom**
- 5:30** Session concludes

## AASV FOUNDATION AUCTION

**Monday, March 6**  
**Colorado A (Level 3)**

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**Silent Auction:**  
Use ClickBid to bid  
anytime, anywhere!  
**[aasvf.cbo.io](http://aasvf.cbo.io)**

---

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

# MONDAY SESSION #3

## Foreign Animal Diseases

### Foreign Animal Diseases: Be Prepared – Be Aware

**Date:** Monday, March 6

**Time:** 2:00 – 5:30 PM

**Location:** Maple 3-4-5

**Session co-chairs:** Marie Culhane and Marisa Rotolo

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- 2:00** Introduction  
**Marie Culhane and Marisa Rotolo**
- 2:05** What's going on? African swine fever global update  
**Karyn Havas**
- 2:30** What's new? African swine fever vaccine update  
**Douglas Gladue**
- 2:55** REFRESHMENT BREAK  
Co-sponsored by:  
**VETERINARY PHARMACEUTICAL SOLUTIONS**
- 3:25** Who can test for foreign animal diseases?  
**Pam Zaabel**
- 3:50** How can we get prepared together? US SHIP  
**Rodger Main**
- 4:15** What is targeted, science-based African swine fever surveillance?  
**Marie Culhane**
- 4:40** When does being prepared pay off? Japanese encephalitis: The Australian experience  
**Chris Richards**
- 5:25** Wrap-up and take-home messages  
**Marie Culhane and Marisa Rotolo**
- 5:30** Session concludes

# TUESDAY GENERAL SESSION

## Important Conversations

### Important Conversations: Be Engaged and Committed for a Common Goal

**Date:** Tuesday, March 7

**Time:** 8:00 AM – 12:00 PM

**Location:** Adams B-C-D

**Session co-chairs:** Matthew Turner and Jordan Gebhardt

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- 8:00** The time is now to eliminate porcine epidemic diarrhea virus (PEDV)  
**Paul Yeske**
- 8:25** PEDV controlled exposure: A critical tool  
**Luc Dufresne**
- 8:50** PEDV exposure, a tool for elimination  
**Karine Talbot**
- 9:05** Experiences in removing planned PEDV exposure for acclimatization in a large commercial production system  
**Lauren Glowzenski**
- 9:20** PEDV elimination/exposure Q&A panel  
**Yeske, Dufresne, Talbot, Glowzenski**
- 10:00** REFRESHMENT BREAK
- 10:30** Veterinary medicine and swine nutrition at AMVC  
**Jason Hocker and Trey Kellner**
- 11:15** Veterinary medicine and swine nutrition at JBS  
**Darin Madson and Kyle Coble**
- 12:00** Session and meeting conclude

### AASV BUSINESS BREAKFAST



Tuesday, March 7

7:00 – 8:00 AM

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Maple 3-4-5 (Level 1)



## MEMBER SERVICES

### WELL-BEING CENTER

Learn about well-being and take advantage of resources and activities at the AASV Well-Being Center.



**Take this opportunity to learn how to help a colleague, client, friend, and yourself!**

---

### Annual Meeting Attendee SCAVENGER HUNT

**“Find Someone Who ...”**

Go on the hunt, get to know your fellow attendees, and you may win a prize!

Scavenger hunt lists available at the Well-Being Center.

---

### MOTHER'S ROOM



**Need a quiet, private place to nurse or pump?**

AASV has set aside a room for this purpose near the registration desk.

*Pick up the key at the AASV registration desk.  
When registration is closed, see Dr. Abbey Canon.*

# SOCIAL ACTIVITIES

Saturday, March 4

## STUDENT TRIVIA EVENT



Sponsored by:

**MERCK ANIMAL HEALTH**

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**Time:** 6:00 – 8:00 PM

**Location:** Maple 3-4-5

Veterinary students, join us at 6:00 PM Saturday evening for appetizers and drinks followed by a fun-filled, interactive evening of competitive swine veterinary medicine trivia!

**Follow AASV on  
Facebook, Twitter,  
and Instagram**

**#AASV2023**



@AASwineVets



@AASwineVets  
@AASVNews



@AASwineVets

# SOCIAL ACTIVITIES

Sunday, March 5

## AASV YOGA CLASS

Hosted by

**DSM ANIMAL NUTRITION & HEALTH**

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**Time:** 6:00 – 7:00 AM | **Location:** Maple 1-2

**Coach:** Ben Pratte

Join us for an hour of fun and interaction in this yoga class offering mind, body, and spirit workout based on YogaFit. Options will be provided for all levels from the beginner (first timer) to advanced yoga enthusiast.

You will feel physically charged and mentally ready to go into sessions for the remainder of the day!

*Mats will be provided – or bring your own. Everyone is welcome, but please register by February 10.*

Register here!



## PRAISE BREAKFAST

Sponsored by

**STUART PRODUCTS and the  
AASV FOUNDATION**

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**Time:** 7:00 – 8:00 AM

**Location:** Willow Lake 3-4-5

**AASV Praise Team:** Dave Baum, Mitch Christensen, Monte Fuhrman, Kelly Greiner, Tyler Holck, Jeff Okones, Sarah Probst Miller, Rexanne Struve



Join your AASV friends for breakfast, music, and fellowship at the AASV Praise Breakfast on Sunday morning! We will sing praises to the Lord, join in a responsive reading from Isaiah and Romans, and listen to a panel of colleagues describe how the truth of the responsive reading has encouraged their lives.

*Your free-will offering, along with support from Stuart Products, will defray the cost of the breakfast.*

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# SOCIAL ACTIVITIES

Sunday, March 5

## STUDENT RECEPTION

Sponsored by

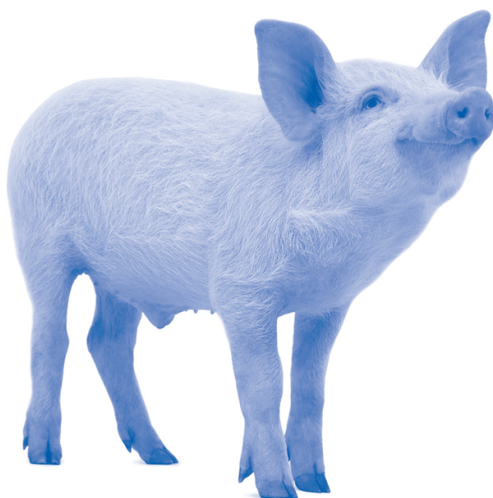
**MERCK ANIMAL HEALTH**

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**Time:** 8:30 – 11:00 PM

**Location:** Willow Lake 3-4-5

Whether you are a veterinarian or veterinary student, you are invited to attend the Student Reception at the AASV Annual Meeting, courtesy of Merck Animal Health! This evening of magical entertainment, desserts, and liquid refreshment provides the perfect opportunity for current and future swine veterinarians to interact and discuss employment and externship possibilities. The drawing for prizes in the veterinary student “Vet Hunt” also happens here. Be There!



# SOCIAL ACTIVITIES

Monday, March 6

## AASV AND AASV FOUNDATION LUNCHEON

Sponsored by

**AASV and the AASV FOUNDATION**

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**Time:** 12:30 – 2:00 PM

**Location:** Colorado A (Level 3)

New! Not only will the veterinary student scholarship recipients be announced as in the past, but the AASV Foundation will also recognize Heritage and Legacy donors and present its annual research grants, debt-relief scholarships, Hogg Scholarship, and more -- all while you enjoy a delicious pork meal. Come see and be a part of the impact the AASV Foundation is having on the swine veterinary profession! Your nametag is your luncheon ticket (sorry, additional tickets are not available).



## AASV AWARDS RECEPTION

Sponsored by

**MERCK ANIMAL HEALTH**

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**Time:** 6:30 – 8:30 PM

**Location:** Colorado A (Level 3)

Enjoy a casual atmosphere and an inviting food and beverage buffet, thanks to support from Merck Animal Health. Watch the AASV slide presentation while you dine. The highlight of the evening is the presentation of the prestigious AASV awards, followed by the exciting AASV Foundation Live Auction. Tickets are provided to all meeting registrants in their nametag holder. Additional tickets are \$25.00 for adults; free for children under twelve. **Bring your tickets - you'll need them to obtain beverages.**



# AASV FOUNDATION PROGRAMS

## **Memorial Lectures**

The foundation provides the speaker stipends for the annual Howard Dunne and Alex Hogg Memorial Lectures.

## **AASV Foundation Research Grants**

Up to \$100,000 per year is awarded to fund research with direct application to the profession.

## **Hogg Scholarship**

Named in honor of early AASP leader Dr. Alex Hogg, the \$10,000 Hogg Scholarship is awarded to a swine practitioner who has left practice to pursue a graduate degree in a field of study related to swine health and production.

## **Student Debt Relief**

Three \$5000 awards are made annually to recent veterinary graduates who have been active in AASV, are engaged in private swine practice, and have significant student debt.

## **ACAW Scholarship**

AASV members seeking board certification in the American College of Animal Welfare (ACAW) can apply for this expense reimbursement scholarship, with an incentive payment of \$10,000 for successful and timely achievement of certification.

## **Veterinary Student Scholarships**

Numerous scholarships are available to veterinary students who participate in the AASV Student Seminar and Poster Competition and to students who demonstrate promise and interest in pursuing a career in swine medicine.

## **Swine Externship Grants**

Veterinary students who have completed a 2-week or longer externship in a swine practice or mixed-animal practice with a considerable swine component can receive up to \$500 of expense reimbursement.

## **Travel Stipends**

In partnership with Newport Laboratories, the foundation provides a \$300 travel stipend to veterinary students who attend the AASV Annual Meeting.

## **Heritage Videos**

The history of AASV is preserved in “member recollection” videos on the AASV website.

# AASV FOUNDATION AUCTION



The auction proceeds are a major source of support for the foundation programs described on the facing page.

## SILENT AUCTION

Bid anytime from anywhere on your phone using ClickBid. Silent Auction items won't be displayed on-site. Donors will ship items to the winning bidders after the auction.

**Bid now at  
[aasvf.cbo.io](https://aasvf.cbo.io)**

It will be "all-in, all-done" for the Silent Auction at 7:00 PM Mountain Standard Time.

## LIVE AUCTION

Location: Colorado A

The Live Auction will be held at the conclusion of the AASV Awards Reception. Be There!



*Thank you for supporting  
the AASV Foundation!*

**[aasv.org/foundation](https://aasv.org/foundation)**

# TECHNICAL TABLES EXHIBIT

## TECHNICAL TABLES EXHIBIT

**Monday, March 6**  
9:00 AM – 5:00 PM

**Tuesday, March 7**  
8:00 AM – 12:00 PM

**LOCATION:** Adams A



All refreshment breaks on Monday and Tuesday take place in and around the exhibit tables.

Spend some time visiting with our exhibitors, learn about the products and services they offer, and be sure to thank them for supporting the AASV Annual Meeting!

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### EXHIBITORS

Acuity/Fast Genetics  
AgCreate Solutions/Pork Avenue Training Portal  
Allflex Livestock Intelligence  
Alltech  
American Board of Veterinary Practitioners  
Animal Health International  
Anpario  
APC  
ARKO Laboratories  
Arm & Hammer  
Aurora Pharmaceutical  
Automated Production (AP)



# TECHNICAL TABLES EXHIBITORS

Bimeda  
BioChek  
BioSec  
Boehringer Ingelheim  
Cambridge Technologies  
Celemics  
Central Life Sciences  
Ceva Animal Health  
Chr Hansen  
Christian Veterinary Mission  
CID Lines  
Clipper Distributing  
DNA Genetics  
DPI Global  
DSM Animal Nutrition & Health  
Eastman  
Elanco  
Endovac Animal Health  
Essential Ag Solutions  
Feedworks USA  
Furst-McNess Company  
Gallant Custom Laboratories  
Genesis Genetics  
GlobalVetLink  
HIPRA  
Hog Slat  
Huvepharma  
Hypor  
IDEXX  
IMV Technologies USA  
Indical  
Innovative Heating Technologies  
Insight Wealth Group  
ISU Office of Innovation Commercialization  
Kemin Animal Nutrition & Health  
LANXESS Corporation  
Longhorn Vaccines and Diagnostics  
MAI Animal Health

# TECHNICAL TABLES EXHIBITORS

Maximus  
MB Swine Reproduction  
Medgene  
Merck Animal Health  
Minitube USA  
MWI Animal Health  
National Pork Board  
Natural Biologics  
NEOGEN Corporation  
Newport Laboratories  
Norbrook  
NutriQuest  
Pharmacosmos  
Pharmgate Animal Health  
Phibro Animal Health Corporation  
PIC  
PigCHAMP  
PigKnows  
PMI  
Prairie Systems  
Precision Health Technologies  
Purina Animal Nutrition  
Ralco  
SEPPIC  
Stuart Products  
Swine Health Information Center  
SwineTech  
TechMix  
Tetracore  
Thermo Fisher  
Topigs Norsvin USA  
United Animal Health  
USDA APHIS  
Veterinary Pharmaceutical Solutions  
VetNOW  
Wilson's Prairie View Farm  
Zinpro Corporation  
Zoetis

Plan now to attend!

# 55<sup>th</sup> AASV Annual Meeting

**February 24-27, 2024**

Gaylord Opryland Resort  
and Convention Center

**Nashville, Tennessee**



## Future AASV Meetings:

2025	San Francisco	March 1-4
2026	Las Vegas	Feb 28-Mar 3
2027	Orlando	Feb 27-Mar 2

Please thank the following companies  
and organizations for their  
generous support of  
AASV annual meeting activities:

**AASV FOUNDATION**

Monday Luncheon  
Praise Breakfast

**DSM ANIMAL NUTRITION & HEALTH**

Yoga Class

**ELANCO ANIMAL HEALTH**

AASV Foundation Veterinary Student Scholarships

**HOG SLAT**

Refreshment Break Co-sponsor

**HUVEPHARMA**

Student Podcaster Award

**MERCK ANIMAL HEALTH**

AASV Awards Reception  
AASV Foundation Veterinary Student Scholarships  
Student Reception  
Veterinary Student Trivia Event

**NEWPORT LABORATORIES**

Veterinary Student Travel Stipends

**STUART PRODUCTS**

Praise Breakfast

**UNITED ANIMAL HEALTH**

Veterinary Student Poster Awards

**VETERINARY PHARMACEUTICAL SOLUTIONS**

Refreshment Break Co-sponsor

**ZOETIS FOUNDATION**

AASV Student Seminar  
AASV Student Poster Session  
AASV Foundation Veterinary Student Scholarship

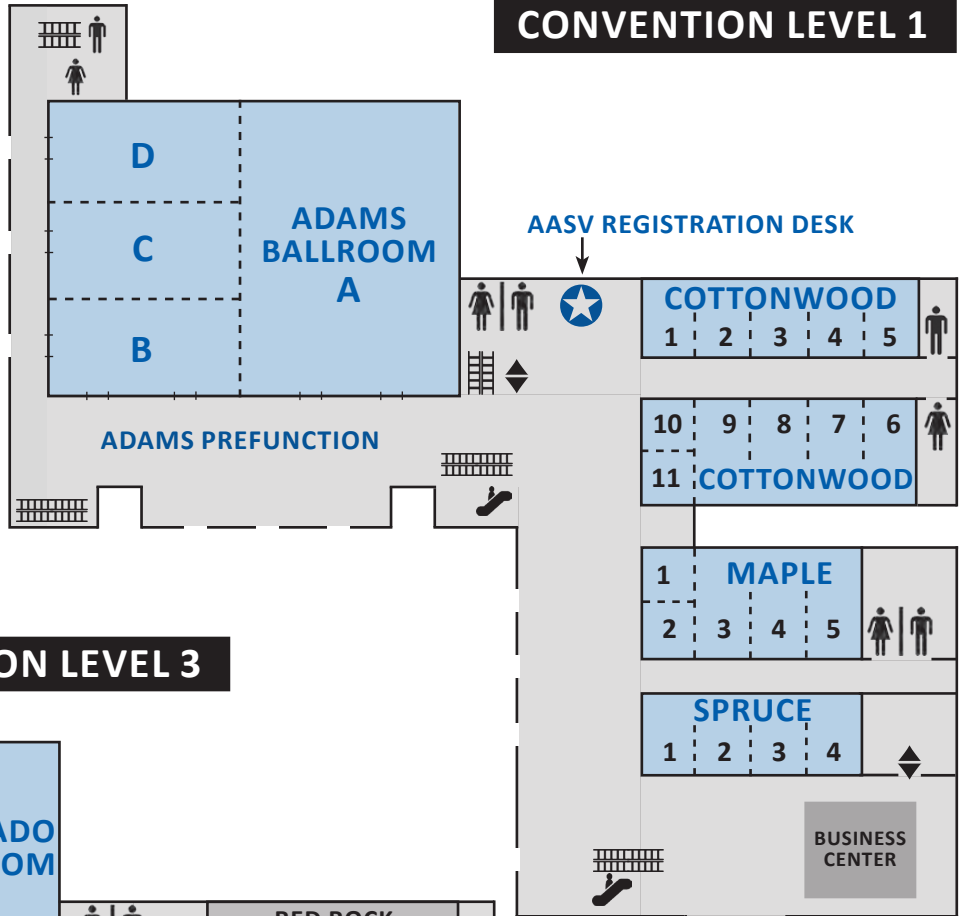
*Thank you!*

# Gaylord Rockies Convention Center

## Map Key:

- ◆ = Elevators
- ▂ = Stairs
- ↘ = Escalators
- ♀ | ♂ = Restrooms

## CONVENTION LEVEL 1



## CONVENTION LEVEL 3

