Welcome to the 35th Annual AASV Meeting in Des Moines!

Dr. John Waddell

Well, it's not Orlando! Nor is it Quebec City or Nashville. It definitely is not Heaven either, despite being located in the state often queried about the resemblance. What am I rambling about? The one and only Des Moines... "Iowa's Capital City". Since Iowa is the number one swine state, I guess that makes Des Moines the “Hog Capital of North America”...maybe the world! It is a fitting venue for our annual meeting.

After meeting in Florida, my first idea for this year’s theme was “Back to Reality”. Well, I altered it slightly to “Back to the Basics”. The Program Committee has put together a meeting that fits the theme and the venue very well. The committee members were given the charge of creating a program of “bugs and drugs”, and I think you will agree they hit the mark! What better place to gather to cuss and discuss diseases of swine than Des Moines! It has been six years since we met in Des Moines. You remember - the blizzard year! Just come early and plan to stay awhile (and leave your Speedos at home this year)!

It has been fifteen years since the Howard Dunne Memorial Lecture has focused on diseases of swine. This year's Dunne Lecturer will go “back to the basics”. Dr. Robert Desrosiers will honor us with his address on the “Epidemiology, diagnosis and control of swine diseases”. 2004 marks the 30th anniversary of Dr. Dunne’s death. Dr. Dunne was the father of “Diseases of Swine”. Robert's lecture is a fitting tribute.
WELCOME TO DES MOINES!

Following the Dunne Memorial Lecture on Monday, the general session will convene for the rest of the day, as we hear from swine disease experts from around the world. Near the end of the Monday morning session, no one will want to miss the Founder’s Message from Ralph Vinson. Ralph promises to enrich us with his message of “What I thought was important 35 years ago!”

Monday afternoon will carry through with a mini-symposium on our disease nemesis: PRRS. The committee has assembled a vaunted lineup of speakers who will provide us with all the latest on PRRS.

Monday evening we will honor the past and current recipients of the AASV Swine Practitioner of the Year, Meritorious Service and Howard Dunne Memorial awards at the Elanco Awards Reception and then have time for fellowship and more fun as the AASV Foundation holds its annual fundraising auction (what else you gonna do in Des Moines?).

In addition to an outstanding Monday general session line-up, there will be a dozen pre-conference seminars starting on Saturday. Fifteen veterinary students will present their original research on Sunday afternoon. At the same time, there will be three jam-packed Industrial Partners sessions. The meeting ends on Tuesday with four concurrent sessions which will make choosing just one very difficult!

The annual meeting would not be possible without the help and guidance of Drs. Schulteis and Burkgren. Sue is an invaluable organizer and Tom provides the strong leadership to get things done. The program committee members were chosen for their varied background and reputation for hard work and dedication to our organization. They were a pleasure to work with and this excellent program is the result of their tireless efforts. Please help me thank each and every one.

Thanks to all of you for attending and participating, making this year’s meeting the best ever! And when you get to Iowa and someone asks: “Is this Heaven?” make sure you tell them: “Hell no, it’s Des Moines!”

Dr. John Waddell
Program Chair
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REGISTRATION AND FEES

REGISTRATION

Registration desk located on third floor

- Saturday, March 6 9:00 AM – 5:00 PM
- Sunday, March 7 7:00 AM – 5:30 PM
- Monday, March 8 7:00 AM – 5:30 PM
- Tuesday, March 9 7:00 AM – 1:00 PM

FEES

Pre-register online at:
www.aasv.org/aasv/annmtg

- AASV member pre-registration $260
- AASV member on-site registration $295
- Non-member veterinarians $380

CONTINUING EDUCATION CREDIT

Sixteen (16) credit hours of veterinary continuing education are available from the regular meeting sessions (Sunday 1:00 PM – Tuesday 1:00 PM). Four (4) credit hours are available from each pre-conference seminar attended on Saturday afternoon or Sunday morning. The SWAPSM training seminar provides seven (7) hours of CE credit.

COMMERCIAL TECHNICAL TABLES

Location: Des Moines Exhibit Hall (third floor)

- Monday 9:00 AM – 5:00 PM
- Tuesday 8:00 AM – 1:00 PM

PLEASE TURN OFF YOUR CELL PHONE OR SWITCH TO SILENT MODE DURING SCIENTIFIC SESSIONS
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AASV TECHNICAL TABLES

Monday, March 8
Time: 9:00 AM – 5:00 PM

Tuesday, March 9
Time: 8:00 AM – 1:00 PM

Location: Des Moines Exhibit Hall (third floor)

Addison Biological Laboratories
Alltech
Alpharma Animal Health
American College of Veterinary Preventive Medicine
ARKO Laboratories
AVMA-GHLIT
AVMA-PLIT
Babcock Genetics
Biomin USA
Boehringer Ingelheim
Danbred North America
E.I. Medical
Elanco Animal Health
Farmweld
Feedstuffs
Fort Dodge Animal Health
Genetiporc USA
Hubbard Feeds
IDEXX
AASV TECHNICAL TABLES

IMV International
Intervet
Kemin Americas
Merial
Merrick’s
Minitube of America
MVP Laboratories
National Institute for Animal Agriculture
National Pork Board
Newport Laboratories
Novartis Animal Vaccines
Pfizer Animal Health
Phibro Animal Health
PIC USA
Pierce Biotechnology
PigCHAMP
Preserve International
Schering-Plough Animal Health
Tech Mix
UltraCROSS Swine Breeding Solutions
Universal Ultrasound
Waldo Farms/Whiteshire United
Zinpro Corporation
Description
In 2004, market expectations for pork producers are going to include an on-farm welfare assessment. The Swine Welfare Assurance Program (SWAP) is a comprehensive and scientifically based tool, which can provide both educational and assessment evaluation of swine welfare on the farm. In this workshop, you will be trained to become a Certified SWAP Educator in the components of the program and performing the on-farm assessments. The Educator will be able to help the producer prepare for a welfare audit by a third party auditor if required by their market.

The qualifications for attending a training session to become a Certified SWAP Educator include:
1. Being a veterinarian, being an Extension Specialist, or being an Ag Educator (for the purposes of SWAP, the definition of an ag educator is a person who spends full time in adult education or at least 50% time in production training), and
2. Having a DVM, or a BS in Animal Science, or equivalent, and
3. Having two years of recent documentable swine production experience, and
4. Resident of the US

Faculty: John Deen, Tom Baas

Submit the separate SWAP application form along with your AASV meeting registration when registering for this session.
PRRSV: Applying epidemiology

Date: Saturday, March 6, 2004
Time: 1:00 – 5:00 PM
Fee: $85.00
Location: Salon D (second floor)
Coordinator: Scanlon Daniels

Description
Porcine respiratory and reproductive syndrome virus (PRRSV) continues to challenge our paradigms. This session will provide participants with some new tools and ideas on how to investigate failures and prevent new outbreaks of this costly disease.

1:00 Introduction
Scanlon Daniels

1:15 Using sequencing as an epidemiological tool
Tony Goldberg

2:00 Toolkit for a complete PRRSV break investigation
Steve Henry

2:45 BREAK (Des Moines - third floor)

3:00 PRRSV-negative herds: A survival analysis
Locke Karriker

3:45 Clean, disinfected, and dry: Options for transport biosecurity
Robert Thompson

4:15 Insect control for swine farms
Paul Yeske

5:00 Seminar concludes
Boar stud topics

Date: Saturday, March 6, 2004
Time: 1:00 – 5:00 PM
Fee: $85.00
Location: Council Bluffs (third floor)
Coordinator: Darwin Reicks

Description
This seminar will blend science with practice to provide take-home information that can be applied today in clients’ boar studs. Veterinarians and boar stud industry specialists will hear from speakers known for hands-on application of research related to boar studs as well as receive an update of current practices. This is a seminar covering where we are and where we should be.

1:00 What technologies are available today to evaluate boar fertility?
Billy Flowers

1:45 What should boar studs be doing to improve sow herd performance?
Darwin Reicks

2:30 BREAK (Des Moines - third floor)

2:45 What are semen extenders? How to decide which extender to use
Don Levis

3:30 Review of current boar stud guidelines
Tim Trayer

4:00 Review of current boar stud practices
Chris Kuster

4:30 Roundtable – questions and answers
All speakers

5:00 Seminar concludes
Emerging disease

Date: Saturday, March 6, 2004
Time: 1:00 – 5:00 PM
Fee: $85.00
Location: Davenport (third floor)
Coordinators: Monte Fuhrman and Harry Snelson

Description
The latest developments in postweaning multisystemic wasting syndrome (PMWS), influenza virus evolution and reassortment, non-TGE coronavirus disease and clostridial syndromes are brought to the surface in this information-packed session.

1:00 Non-TGE coronavirus developments
Chris Chase

1:45 Clostridial swine disease
Glenn Songer

2:30 BREAK (Des Moines - third floor)

2:45 Influenza evolution and reassortments
Richard Webby

3:30 PMWS evolution
Greg Stevenson

4:15 PMWS immunology
Pat Halbur

5:00 Seminar concludes
Animal welfare is not just “The Right Thing”: How to use it to affect production

Date: Saturday, March 6, 2004  
Time: 1:00 – 5:00 PM  
Fee: $85.00  
Location: Salon B (second floor)  
Coordinators: Paul Sundberg and Anna Johnson

**Description**
Production techniques that address welfare can also be used to evaluate and improve efficiency. Animal welfare and production efficiency are not mutually exclusive terms. In today's production and political climates, how can the producer use the latest production techniques, ensure the continuing welfare of their animals, and at the same time meet the expectations of their market in a sustainable way?

During this seminar, each of the speakers will focus on a welfare issue and how science can be applied on the farm to address that issue. Cutting edge information on housing, feeding, euthanasia and producer training will give the swine veterinarian new tools to take to producers to help them meet their market welfare expectations and their production expectations at the same time.

<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>1:00</td>
<td>Considering a facility remodel? The questions to ask and a tool to help provide the answers</td>
<td>Don Levis</td>
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<td>1:45</td>
<td>Euthanasia: Applying proper timing for welfare and its economic impact</td>
<td>Morgan Morrow</td>
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<td>2:30</td>
<td>Using the Swine Welfare Assurance Program™ (SWAP™) to affect production</td>
<td>Anna Johnson</td>
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<td>3:00</td>
<td>BREAK (Des Moines - third floor)</td>
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<td>Time</td>
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<td>Presenter</td>
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<td>3:30</td>
<td>Space Requirements: Striking a balance between welfare and production efficiency with innovative stocking and marketing techniques</td>
<td>Harold Gonyou</td>
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<tr>
<td>4:15</td>
<td>Small groups and trickle feeding: impact on sow welfare and productivity</td>
<td>John McGlone</td>
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<td>5:00</td>
<td>Seminar concludes</td>
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Modern facility design concepts

Date: Saturday, March 6, 2004
Time: 1:00 – 5:00 PM
Fee: $95.00
Location: Salon C (second floor)
Coordinator: Jeff Harker

Description
Participants in this seminar will learn new ideas in swine facility design that address current issues in pork production. New concepts include electronic sow feeding, new ventilation techniques, innovative manure/nutrient handling, and automatic sorting. Anyone involved in farms planning to remodel or expand should attend this seminar.

1:00 Manure handling in the 21st century
Mike Veenhuizen

1:50 Managing sows in groups
Ron Thibault

2:45 BREAK (Des Moines - third floor)

3:00 Large pen and autosorting technologies
Malcolm DeKryger

3:30 Large pen and autosorting technologies
Tom Gillespie

3:45 Airworks ventilation system
Mike Lemmon

4:30 Roundtable – questions and answers
All speakers

5:00 Seminar concludes
Foreign Animal Disease – review and update

Date: Saturday, March 6, 2004
Time: 1:00 – 5:00 PM
Fee: No charge
Location: Dubuque (third floor)
Coordinators: David Pyburn and Sabrina Swenson

Description
The purpose of this seminar is to provide the swine practitioner with a review of the lesions and clinical signs observed during a foreign animal disease outbreak. We will also discuss the steps to take to report a suspicious disease outbreak and the expected response from the government authorities. The speakers will provide updates regarding issues such as vaccine availability, screening tests, and the development of the National Animal Health Laboratory Network (NAHLN).

1:00 Review of the lesions and clinical signs associated with foreign animal diseases in swine
Samia Shawky

1:30 FAD vaccines: How will we acquire vaccines if needed?
Rick Hill

1:50 Update on the Federal Accreditation Program
David Pyburn

2:05 USDA Emergency Programs guidelines for FAD response and the use of accredited veterinarians during emergencies
Larry Granger

2:25 BREAK (Des Moines - third floor)

2:40 Description of the National Animal Health Laboratory Network (NAHLN)
David Kinker

(Continued on next page)
SEMINAR #6

(Continued from page 17)

3:00 Laboratory perspective of NAHLN
   Gary Osweiler

3:15 Validation and training for the use of FAD PCR
    screening tests
   Barb Martin

3:35 Swine food chain – hazard assessment
   Barrett Slenning

4:05 National Animal ID – update and how this program
    will affect the swine industry and national animal
    disease management
   Mark Engle

4:20 Roundtable Q & A
   All speakers

5:00 Seminar concludes

Co-sponsored by the USDA

Pfizer
Animal Health
Reception

Saturday, March 6
6:00 PM
IOWA BALLROOM (SECOND FLOOR)
Skills and tools for practitioners

Date: Sunday, March 7, 2004
Time: 8:00 AM – 12:30 PM
Fee: $85.00
Location: Salon FGH (second floor)
Coordinator: Barry Kerkaert

Description
The focus of this session will be to have leaders in our profession and the swine industry share with the practitioners their styles and focus points on specific issues. The session will be diverse and have practical application for the practitioner. Our goal is to introduce the practitioner to the styles and information of industry leaders.

8:00 A system analysis and how I prioritize the findings
Bill Hollis

8:45 Production and financial indicators I focus on
Brad Freking

9:30 Practical application of biosecurity
Mark Engle

10:10 BREAK (Des Moines - third floor)

10:25 Auditing grow-finish facilities
Eric Christianson

11:10 The pig pen from the pig’s point of view
Mike Brumm

11:55 What’s new at the diagnostic lab
Pat Halbur

12:30 Seminar concludes
Date: Sunday, March 7, 2004  
Time: 8:00 AM – 12:00 PM  
Fee: $95.00  
Location: Salon E (second floor)  
Coordinators: Al Carlson and Bryan Myers

### Description
Reproductive efficiency varies considerably between farms. This seminar will provide practical working technologies to the practitioner and present the most current working techniques that will assist in obtaining optimum reproductive efficiency in the breeding herd.

#### 8:00 Genetic considerations for optimizing reproductive efficiency
John Mabry

#### 8:45 Nutritional considerations for optimizing reproductive efficiency
Bob Goodband

#### 9:30 Pharmacologic considerations for optimizing reproductive efficiency
George Foxcroft

#### 10:15 BREAK (Des Moines - third floor)

#### 10:30 Optimizing reproductive efficiency: Technologies that work, part I
Don Levis

#### 11:15 Optimizing reproductive efficiency: Technologies that work, part II
William Flowers

#### 12:00 Seminar concludes
Applied swine medicine: 
Taking it to the farm

Date: Sunday, March 7, 2004
Time: 8:00 AM – 12:00 PM
Fee: $85.00
Location: Salon D (second floor)
Coordinator: Teddi Wolff

Description
Come prepared for an informal, interactive and enjoyable morning! This seminar addresses the most common response received on evaluation forms from previous workshops: “Give me something practical that I can take home and use!” We’ll review some basic tenets, then apply them as we tackle tough swine health problems. Our expert panel will lead us through several case histories while melding “diagnostic interpretation” and “how drugs work” with AMDUCA compliance. We’ll also preview the Veterinary Antimicrobial Decision System (VADS) and learn how swine veterinarians can apply this useful tool in their practices.

8:00 Veterinary Antimicrobial Decision System (VADS) update and demo
Mike Apley

9:00 Applied pharmacology: The basics
Mike Apley

9:30 AMDUCA overview
Angela Baysinger

9:45 BREAK (Des Moines - third floor)

10:00 Applied diagnostics: The basics
Kent Schwartz

10:30 Panel discussion of case histories
Randy Bush – practitioner perspective
Mike Apley – pharmacology perspective
Kent Schwartz – diagnostic perspective
Angela Baysinger – AMDUCA perspective

12:00 Seminar concludes
Fireproof your assets – before the match is struck!

Date: Sunday, March 7, 2004  
Time: 8:00 AM – 12:00 PM  
Fee: $75.00  
Location: Davenport (third floor)  
Coordinator: K. T. Wright

Description
Veterinarians make decisions every day, many of which have legal ramifications that can impact the stability of both business and personal assets. Learn how to protect what you’ve worked hard to obtain by understanding how various options can provide added security and by making plans to implement the safeguards that are right for you.

This seminar will address:
1) Determining the proper type of legal structure in which to practice: partnerships, sole proprietorships, professional corporations, and professional limited liability companies
2) Determining how to hold title to properties: practice, land, autos, and personal properties (home, autos, accounts)
3) Determining insurance coverage: professional liability, umbrellas, general liability, workers compensation, disability/Social Security, and auto
4) Practice and record-keeping activities
5) Suing a client

Speaker: Jim Carney, attorney
Mr. Carney has practiced law in Des Moines, Iowa for 29 years. He is a member of the American Veterinary Medical Law Association: an international association of attorneys, veterinarians, and other individuals with an interest in veterinary medical law and how it pertains to the veterinary profession and allied fields. In the course of his practice, Carney has served as a defense attorney for the AVMA-PLIT, and has represented many individual veterinarians and clinics in licensing matters as well as civil litigation.

Co-sponsored by the AASV Foundation
The business of veterinary medicine for the soon-to-be-veterinarian

Date: Sunday, March 7, 2004
Time: 8:00 AM – 12:00 PM
Fee: No charge for students and ‘02 and ‘03 graduates; $85.00 for others
Location: Salon ABC (second floor)
Coordinator: Larry Firkins

Description
This is the seminar every veterinarian wishes they’d had the opportunity to attend as a veterinary student or recent graduate. Learn what actions you can take today to allow you to be better prepared for your first years in practice. Two practitioners from highly successful swine consultation practices will share their insights into what you need to know to succeed in practice. Three veterinarians that regularly teach business principles will share their knowledge in the areas of negotiations, understanding economics, and financial management that will impact your career and your life.

8:00 You are good enough. You are smart enough. Developing your niche.
Sarah Probst Miller

8:45 Effective associate contract and salary negotiations
David Reeves

9:30 The continually changing global pork industry: economics and production
Larry Firkins

10:00 BREAK (Des Moines - third floor)

10:15 Economics of pork production, continued
Larry Firkins

10:30 Transitioning from new graduate to impressing partners and producers
Ross Kiehne

(Continued on next page)
(Continued from page 23)

11:15 Budgeting and prioritizing revenue disbursement after graduation
   Bob Morrison

12:00 Seminar concludes
Quality control in the feed mill

Date: Sunday, March 7, 2004
Time: 8:00 AM – 12:00 PM
Fee: $95.00
Location: Dubuque (third floor)
Coordinator: Pete Pawluk

Description
Wholesome ingredients and appropriate and consistent nutrient levels are essential in swine diets to ensure both performance and health of the pigs. In this seminar we will focus on quality control in the feed mill to help prevent feed-related problems before they occur and to identify areas for troubleshooting when a problem is suspected with the nutrient source. We'll start by taking a look at the functional anatomy of a feed mill and identifying critical control points for errors and sampling. Next, we'll examine the sources of variability in feed ingredients and present sampling protocols to measure that variability. We'll also discuss the monitoring of complete feeds. Finally, we'll review the clinical signs and history suggestive of a feed-related toxicosis, and discuss current testing methodology and sample handling procedures in the event you suspect a problem with the feed. Time will be provided for questions and discussion during the presentations.

8:00 Feed manufacturing and delivery systems
Keith Behnke

9:00 Managing ingredient variability
Keith Haydon

10:00 BREAK (Des Moines - third floor)

10:30 Mycotoxins and other adulterants of feed
Gavin Meerdink

12:00 Seminar concludes
SUNDAY, MARCH 7, 2004
Student Seminar
Concurrent session #1
Time: 1:00 – 5:00 PM
Location: Salon ABC (second floor)
Session Co-Chairs: Sandra Amass and Tom Fangman

Co-sponsored by
Alpharma Animal Health

1:00  Multiple-locus variable number tandem repeat analysis for the differentiation of *Lawsonia intracellularis* isolates
*Dana Beckler, University of Minnesota*

1:15  An assessment of insects as regional vectors of porcine reproductive and respiratory syndrome virus
*Jennifer Boorman, University of Minnesota*

1:30  Automatically sorted, large pen finish barns reduce death loss during transportation to market
*Meghann Brumsted, University of Pennsylvania*

1:45  Analysis of large pen, automatic sort finisher barns
*Amy Carroll, Purdue University*

2:00  Impact of diet complexity on growth performance and morbidity of pigs after weaning
*Angie Haag, University of Illinois*

2:15  Enhancing artificial insemination in swine
*Christa Helmka, University of Guelph*

2:30  SIV vaccine induced neutralizing and hemagglutination inhibition antibodies
*Heather Hilbrands, Iowa State University*

2:45  Comparison of the effect of adjuvants on PCV2-associated diseases
*Marlin Hoogland, Iowa State University*

3:00  BREAK (Des Moines - third floor)

*Eva Jablonski, North Carolina State University*
STUDENT SEMINAR

3:30 Evaluation of the effectiveness of hyperimmunized chicken eggs for controlling Lawsonia intracellularis infection in growing swine
Keith Kinsley, University of Minnesota

3:45 Post-vaccination evaluation of antibody production and cross-reactivity against multiple SIV H3N2 strains using a hemagglutination inhibition assay
Brad Leuwerke, Iowa State University

4:00 A DNA technology trial to demonstrate the identity preservation and traceability of pigs from farm to retail
Kimberley MacDonald, University of Prince Edward Island

4:15 Characterization of mortality in pigs 10 to 20 weeks post-weaning in a large production company
Brian Payne, University of Illinois

4:30 Growth dynamics of two common bacterial contaminants found in extended porcine semen
Michael Pierdon, University of Pennsylvania

4:45 Analysis of Mycoplasma hyopneumoniae field isolates
Erin Strait, Iowa State University

Schering Plough Welcome Reception
6:00 – 8:00 PM

Intervet Student Reception
8:30 – 11:00 PM
Iowa Ballroom (second floor)
1:00 A description of the effect of a purified Beta-Glucan extract on the antibody response to PRRS Virus vaccination and to lymphocyte proliferation of weaned pigs  
**Speaker:** Daniel Hurnik  
**Sponsor:** Immudyne Canada

1:15 Skin trim losses at slaughter: Merial/Elanco/National Pork Board's initiatives with the packing industry  
**Speaker:** David Meisinger  
**Sponsor:** Merial

1:30 Toward a better diagnosis of swine scabies with a new antibody ELISA kit  
**Speaker:** Jozef Vercruysse  
**Sponsor:** Merial

1:45 Application techniques of the “Productivity Calculator” against the resurgence of *Sarcoptes scabiei* var. *suis*  
**Speaker:** Doug Weiss  
**Sponsor:** Merial

2:00 Co-product use in swine feeds: Distillers dried grain with solubles (DDGS)  
**Speaker:** Bob Woerman  
**Sponsor:** Land O'Lakes Feed

2:15 *In vitro* inhibition of resistance transfer in *Escherichia coli* by chlortetracycline (CTC), bacitracin, or CTC plus roxarzone combinations  
**Speaker:** Jeremy Mathers  
**Sponsor:** Alpharma Animal Health

2:30 *In vitro* susceptibility of *Clostridium difficile* swine isolates to chlortetracycline (CTC) and CTC plus bacitracin  
**Speaker:** Jeremy Mathers  
**Sponsor:** Alpharma Animal Health

2:45 Inclusion of BMD® or BMD® plus 3-Nitro® in swine diets during ileitis vaccination  
**Speaker:** Joe Connor  
**Sponsor:** Alpharma Animal Health
<table>
<thead>
<tr>
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<th>Sponsor</th>
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<tbody>
<tr>
<td>3:00</td>
<td>Pro-apoptotic and anti-inflammatory effects of oral tilmicosin in the Actinobacillus pleuropneumoniae-infected porcine lung</td>
<td>A.G. Buret</td>
<td>Elanco Animal Health</td>
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<tr>
<td>3:15</td>
<td>Tylan premix and Enterisol vaccine evaluation in a Lawsonia intracellularis challenge model</td>
<td>Greg Armbruster</td>
<td>Elanco Animal Health</td>
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<tr>
<td>3:30</td>
<td>Pulmotil sow safety study</td>
<td>Ginger Pelger</td>
<td>Elanco Animal Health</td>
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<tr>
<td>3:45</td>
<td>Water application of inulin during diet changes in swine nursery period</td>
<td>Joseph Hahn</td>
<td>Hubbard Feeds</td>
</tr>
<tr>
<td>4:00</td>
<td>Recent research suggests chromium source and level is important when supplementing sow diets</td>
<td>Merlin Lindemann</td>
<td>Prince Agri Products</td>
</tr>
<tr>
<td>4:15</td>
<td>Past, present, and future uses of organic and inorganic acids in nursery pig diets</td>
<td>Maria Carol Walsh</td>
<td>Kemin Americas</td>
</tr>
<tr>
<td>4:30</td>
<td>The effect of Microbial Activation Factor on the viability of swine pathogens in swine effluent</td>
<td>James Zahn</td>
<td>NutriPro BioSystems</td>
</tr>
<tr>
<td>4:45</td>
<td>Growth performance benefits of Microbmix® (an environment enhancement agent) in 25 to 50 pound nursery pigs</td>
<td>Chris Rademacher</td>
<td>NutriPro BioSystems</td>
</tr>
<tr>
<td>5:00</td>
<td>Complexed chromium improves sow performance</td>
<td>Tim Fakler</td>
<td>Zinpro Corporation</td>
</tr>
<tr>
<td>5:15</td>
<td>Bacteria as a cause of decreased fertility in breeding sows: Natural prevention by dietary means</td>
<td>Gwendolyn Jones</td>
<td>Biomin Austria</td>
</tr>
</tbody>
</table>
SUNDAY, MARCH 7, 2004

Industrial Partners
Concurrent session #3

Time: 1:00 – 5:30 PM
Location: Salon E (second floor)
Session Chair: Rodger Main

1:00 The fresh air system that works
Speaker: Mike Lemmon
Sponsor: Waldo Farms/Whiteshire Hamroc

1:15 Applying genomics to complex traits
Speaker: Archie Clutter
Sponsor: Monsanto Choice Genetics

1:30 Large research populations for significant genomics discovery
Speaker: Archie Clutter
Sponsor: Monsanto Choice Genetics

1:45 Monsanto Choice Genetics genomics tools: Moving from discovery to value capture
Speaker: Michael Lohuis
Sponsor: Monsanto Choice Genetics

2:00 A PRRS elimination strategy for recovery of certain Newsham nucleus family lines
Speaker: Mark Weaver
Sponsor: Newsham Genetics

2:15 Preliminary findings from a sow mortality survey
Speaker: Luc Dufresne
Sponsor: PIC

2:30 The impact of age, weight, and backfat at first service on productivity
Speaker: Noel Williams
Sponsor: PIC

2:45 Development, validation, and commercialization of a real-time PCR for detection of Lelystad, European-like, and US PRRS
Speaker: Jane Christopher-Hennings
Sponsor: PIC

3:00 Closed herd technology: Breedover vs. depop-repop
Speaker: Darwin Kohler
Sponsor: Babcock Genetics
INDUSTRIAL PARTNERS

3:15 Transferring veterinary knowledge into production profits: Closed herds  
**Speaker:** Scott Bailey  
**Sponsor:** Babcock Genetics

3:30 Use of marker-assisted selection in Babcock Genetics programs  
**Speaker:** James Schneider  
**Sponsor:** Babcock Genetics

3:45 Gilt development and previous lactation length influence on subsequent born alive  
**Speaker:** Larry Himmelberg  
**Sponsor:** Danbred North America

4:00 The field comparisons of reproductive performance on the effects before and after implementation of Sperm Vision in a boar stud  
**Speaker:** Mark Wilson  
**Sponsor:** Minitube of America

4:15 Variation of semen counts during dispensing and intervention strategies  
**Speaker:** Darwin Reicks  
**Sponsor:** IMV International

4:30 Performance characteristics of a new pseudorabies virus (PRV) gB antibody ELISA test  
**Speaker:** Hardi Liauw  
**Sponsor:** IDEXX Laboratories

4:45 Serologic responses to three commercial bivalent swine influenza virus vaccines in juvenile pigs  
**Speaker:** Tim Jackson  
**Sponsor:** IDEXX Laboratories

5:00 The American College of Veterinary Preventive Medicine board certification: Going to the next level of professional advancement and client service  
**Speaker:** Paul Sundberg  
**Sponsor:** ACVPM

5:15 Ultrasound in swine breeding operations  
**Speaker:** Mia Pettek  
**Sponsor:** E.I. Medical
**SUNDAY, MARCH 7, 2004**

**Industrial Partners**  
Concurrent session #4

Time: 1:00 – 5:30 PM  
Location: Salon FGH (second floor)  
Session Chair: David Nolan

1:00  
Evaluation of a one-dose *Mycoplasma hyopneumoniae* bacterin and a one-dose *Erysipelothrix rhusiopathiae* bacterin  
*Speaker:* Brad Bosworth  
*Sponsor:* Novartis Animal Vaccines

1:15  
Efficacy and serologic evaluation of a new one-dose swine influenza vaccine  
*Speaker:* Doug Stine  
*Sponsor:* Novartis Animal Vaccines

1:30  
Efficacy of modified live virus porcine reproductive and respiratory virus vaccines against heterologous challenge  
*Speaker:* Mike Roof  
*Sponsor:* Boehringer Ingelheim Vetmedica

1:45  
Field experiences using modified live PRRS vaccine in a mass vaccination protocol for the control of PRRS  
*Speaker:* Tom Wetzell  
*Sponsor:* Boehringer Ingelheim Vetmedica

2:00  
Observations of dose dependency with Enterisol ileitis vaccine  
*Speaker:* Don Walter  
*Sponsor:* Boehringer Ingelheim Vetmedica

2:15  
Comparison of pharmacokinetic parameters for Excenel RTU when injected by needle or Felton Pulse™ 250 needle-free injector  
*Speaker:* Mike Senn  
*Sponsor:* Pfizer Animal Health

2:30  
Post vaccination clinical response to two commercial one-dose *Mycoplasma hyopneumoniae* vaccines  
*Speaker:* Michael Kuhn  
*Sponsor:* Pfizer Animal Health

2:45  
Further studies on the effect of SIV maternally-derived antibodies on active immunization  
*Speaker:* Thayer Hoover  
*Sponsor:* Pfizer Animal Health
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Sponsor</th>
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<tbody>
<tr>
<td>3:00</td>
<td>BREAK (Des Moines - third floor)</td>
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<tr>
<td>3:15</td>
<td>Comparision of Haemophilus parasuis genotyping using Amplified Fragment Length Polymorphism (AFLP) and ERIC-PCR</td>
<td>Simone Oliveira</td>
<td>Newport Laboratories</td>
</tr>
<tr>
<td>3:30</td>
<td>Efficacy of a single dose of M+pac®: Onset of immunity; duration of immunity; and efficacy in pigs with maternally-derived antibodies</td>
<td>Harry Snelson</td>
<td>Schering-Plough Animal Health</td>
</tr>
<tr>
<td>3:45</td>
<td>Cross-protection between classical and reassortant H1N1 swine influenza viruses from the United States</td>
<td>Vicki Rapp-Gabrielson</td>
<td>Schering-Plough Animal Health</td>
</tr>
<tr>
<td>4:00</td>
<td>Efficacy of Scourmune® against challenge of neonatal piglets with Escherichia coli strains expressing K88, K99, 987P and type 1 pili</td>
<td>Doug Hutchinson</td>
<td>Schering-Plough Animal Health</td>
</tr>
<tr>
<td>4:15</td>
<td>Evaluation of protection for Suvaxyn SIV vaccination against H1N2 swine influenza virus</td>
<td>Darrell Neuberger</td>
<td>Fort Dodge Animal Health</td>
</tr>
<tr>
<td>4:30</td>
<td>A retrospective study of the prevalence of cpa, cpb, cpe, and cpb2 toxin genes among Clostridium perfringens isolates obtained from pigs with gastrointestinal diseases using PCR genotyping</td>
<td>Boh Chang Lin</td>
<td>MVP Laboratories</td>
</tr>
<tr>
<td>4:45</td>
<td>Utilizing a commercially available killed PRRSv vaccine to eliminate PRRS virus from a 600-sow farm</td>
<td>Matt Ackerman</td>
<td>Intervet</td>
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<tr>
<td>5:00</td>
<td>Implementation of a process proven, system-specific SIV vaccination program</td>
<td>Warren Wilson</td>
<td>Intervet</td>
</tr>
<tr>
<td>5:15</td>
<td>Matrix™ (altrenogest) for synchronization of estrus in mature cycling gilts</td>
<td>Charles Francisco</td>
<td>Intervet</td>
</tr>
</tbody>
</table>
The Trichinae Certification Program is a developing USDA pre-harvest pork safety program that will provide documentation of swine management practices which minimize risk of exposure of swine to the zoonotic parasite *Trichinella spiralis*. The program establishes a set of processes that enable producers to raise swine that are not a risk to human health due to parasite exposure. This program is currently being piloted in the Midwest. The USDA regulation writing and publishing process will be completed late in 2004 after which this voluntary program will be available to the pork industry.

Your role in the program as the Qualified Accredited Veterinarian (QAV) for production sites requesting to enter into the program is to objectively assess the existence of the risk factors for trichinella infection. The Program Audit form will lead you through the site assessment. As a USDA accredited veterinarian, completion of the QAV training session will qualify you to perform this on-farm auditing service for pork production units and it will train you on how to assess trichinella infection risk factors.

Since all Qualified Accredited Veterinarians must first be accredited by USDA, this workshop is only open to currently accredited veterinarians. The training is conducted via computer CD ROM and will take approximately 3 1/2 hours. Computers and all needed materials will be supplied for your use at the workshop.
Once again, the AASV will host the spouse hospitality suite at the meeting hotel. Enjoy a pastry and juice or coffee while you visit old friends and make new acquaintances.

Don't miss the opportunity to enjoy a few of Des Moines' local attractions with fellow AASV spouses. It may still feel like winter outdoors, but you'll be ready for spring after you tour the Des Moines Botanical Center and enjoy its geodesic dome bursting with bloom and lush tropical growth.

Next, prepare to be impressed by the Salisbury House, a 42-room mansion nestled on a ten-acre woodland estate in the heart of Des Moines, where you'll enjoy lunch and a guided tour. Modeled after King's House in Salisbury, England, this 4-story, 22,500 square foot castle took five years and three million dollars to build and furnish in the mid-1920's. This ambitious project was undertaken by pharmacist and cosmetics businessman Carl Weeks, the son of a prosperous Iowa veterinarian and hog breeder. The mansion's rooms are filled with the owners' original furnishings, including an impressive collection of rare art, paintings, and tapestries.

Before the day is over, you'll have the opportunity to add to your own trove of collectibles as you shop in Des Moines' historic Valley Junction. This quaint collection of shops has something for everyone: antiques, art, pottery, clothing, quilting, candy, and many other specialty stores.

Coach transportation, admissions, and lunch are all included in the tour registration fee. Space is limited, so sign up early!
The silent auction will take place during the day on Monday, March 8. Later Monday evening, a few choice items will be auctioned off at the live auction to be held during the AASV awards reception.

Some of the items already donated for the auctions include:

- Framed “Kids ‘n Pigs” print by artist Marvin Espe
- G Loomis pack rod with a Shimano reel
- Queen-sized comforter with a nature scene
- Handcrafted child’s rocking pig

Many more items will be added by auction time – be sure to look them over!

The proceeds from the auctions help fund the AASV Foundation endowment. Recently, the Foundation has provided funding for swine research, veterinary student externship grants, and financial planning seminars.

Donations from AASV members and corporate sponsors enable the auction proceeds to benefit the AASV Foundation and support the Foundation’s efforts to “Ensure our future... Create a legacy”.

Everybody bid-a-now!
MONDAY, MARCH 8, 2004
Back to the basics
General session

Time: 8:00 AM – 12:00 noon
Location: Iowa Ballroom (second floor)
Session Chair: John Waddell

8:00 am – Howard Dunne Memorial Lecture
“Epidemiology, diagnosis, and control of swine diseases”
Speaker: Robert Desrosiers

9:00  Swine zoonosis and the potential effect on the global market for pork
      Peter Davies

9:45  BREAK (Des Moines - third floor)

10:00 Danish national strategies of swine disease control, eradication and biosecurity
      Poul Baekbo

10:45 Ethics in modern swine practice
      David Reeves

11:30 Founder’s message: Things I thought were important 35 years ago
      Ralph Vinson

12:00 LUNCH

12:00 Noon
AASV Luncheon
Sponsored by Boehringer Ingelheim Vetmedica, Inc.
Location: Des Moines Exhibit Hall (third floor)
MONDAY, MARCH 8, 2004

PRRS

General session

Time: 1:30 – 5:30 PM
Location: Iowa Ballroom (second floor)
Session Chair: John Waddell

1:30 PRRS from 30,000 feet: A 15-year uphill climb. Have we reached the top or are we bottomed out?
   **Hank Harris**

2:15 The science of PRRS: What do we really know about its epidemiology, transmission, diagnosis and control?
   **Scott Dee**

3:00 PRRS immunology: What are we missing?
   **Michael Murtaugh**

3:30 BREAK (Des Moines - third floor)

3:50 PRRS vaccinology: To hell and back or “Can you hear me now?”
   **Howard Hill**

4:30 Eradication of PRRS: Pot of gold or pipedream?
   **Steve Henry**

5:00 The PRRS Initiative: Game, set, match
   **Eric Neumann**

6:00 pm

AASV Awards Reception

Sponsored by Elanco Animal Health
Location: Des Moines Exhibit Hall (third floor)
TUESDAY, MARCH 9, 2004

Emerging technologies
Concurrent session #1

Time: 9:00 AM – 1:00 PM
Location: Salon ABC (second floor)
Session Chair: Rick Sibbel

9:00 Neonatal immune development in swine management
   David Hurley

9:45 Emerging technologies in reproduction: How the Danes have reached 30 pigs/sow/year
   Tom Rathje

10:45 BREAK (Des Moines - third floor)

11:00 Deciphering complex host-pathogen interactions using functional genomics
   Paul Coussens

12:00 Collecting and managing production data in real time
   Brian Buhr

7:00 am

Breakfast and Annual Business Meeting

Location: Des Moines Exhibit Hall (third floor)
TUESDAY, MARCH 9, 2004

Research topics
Concurrent session #2

Time: 9:00 AM - 1:00 PM
Location: Salon D (second floor)
Session Co-chairs: Pat Halbur, Peggy Hawkins, S. Ernest Sanford

RESEARCH TOPICS

9:00 Assessing the risk of transport vehicles in the transmission of PRRSV
Scott Dee

9:15 Transmission of PRRS virus to young swine by oral exposure
J.R. Hermann

9:30 Minimum infectious dose determination for acute infection of Salmonella in swine
A.T. Loynachan

9:45 Association of porcine interleukin-12 receptor β2 (IL-12Rβ2) gene alleles with the development of high or low interferon-γ response to PRRS virus
Federico Zuckermann

10:00 Effect of repeated vaccination for PRRSV on immune responses in sows
Eileen Thacker

10:15 Influence of PRRS virus infection on swine influenza vaccine efficacy
Amy Vincent

10:30 Clinical, diagnostic and research perspectives on a “new” mystery swine disease
Kyoung-Jin Yoon

10:45 BREAK (Des Moines - third floor)

11:15 Procedures for preventing transmission of foot-and-mouth disease virus to pigs and sheep by personnel in contact with infected pigs
Sandra Amass
RESEARCH TOPICS

11:30 Effect of estrogen formulation and site of deposition on fertility of artificially inseminated sows treated with HCG
Glen Cassar

11:45 Progression of *Lawsonia intracellularis* infection and mucosa immune response in pigs
Roberto Guedes

12:00 *Mycoplasma hyopneumoniae* increases the severity and duration of PCV2-associated lung and lymphoid lesions
Tanja Opriessnig

12:15 Efficacy of experimental inactivated PCV2 vaccines for preventing PMWS in CDCD pigs
Roman Pogranichniy

12:30 Are there high and low *Salmonella* prevalence farms?
Marcos Rostagno

12:45 A recombinant Ad-5 swine influenza vaccine that overrides maternal antibody interference
Ron Wesley
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>9:00</td>
<td>Better alignment of customer and consumer expectations with industry performance</td>
<td>Paul Sundberg</td>
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<tr>
<td>9:30</td>
<td>A packer's perspective on third party audits</td>
<td>Charlie Arnot</td>
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<tr>
<td>10:00</td>
<td>Applying real world welfare concerns to the production system through third party audits</td>
<td>John McGlone</td>
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<td>10:30</td>
<td>SWAPSM Overview</td>
<td>Anna Johnson</td>
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<tr>
<td>10:45</td>
<td>BREAK (Des Moines - third floor)</td>
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<td>11:00</td>
<td>On-farm PQA® assessment: The new program and practical experience</td>
<td>Barbara Straw</td>
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<td>11:15</td>
<td>Pondering pork producer possibilities</td>
<td>John Lawrence</td>
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<td>11:45</td>
<td>Helping swine veterinarians deal with the emotional aspects of clients exiting the business</td>
<td>Margaret Van Ginkel</td>
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<td>12:05</td>
<td>Reducing antimicrobial use in a production system</td>
<td>Butch Baker</td>
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<tr>
<td>12:30</td>
<td>Writing prescriptions: is your license in the crosshairs?</td>
<td>Dirk Hanson</td>
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TUESDAY, MARCH 9, 2004
Diagnosis, treatment, control, and elimination of diarrheal diseases in growing pigs
Concurrent session #4
Time: 9:00 AM – 1:00 PM
Location: Salon FGH (second floor)
Session Chair: Joe Rudolphi

9:00 Clostridial diarrheal diseases: Neonatal infections that affect post-weaning performance
Glenn Songer

9:30 Post-weaning E. coli: Diagnosis, treatment, control, and its effect on subsequent performance
David Francis

10:00 Dietary effects on wean-finish diarrhea
Jim Pettigrew

10:45 BREAK (Des Moines - third floor)

11:00 Ileitis diagnosis, treatment, and control strategies with emphasis on the economic impact
Tim Loula

11:20 Colitis in the finishing pig: Diagnosis, control, elimination, and its effect on performance
Kent Schwartz

11:40 Epidemiology of acute finishing mortality: The role of Hemorrhagic Bowel Syndrome, risk factors, and potential control measures
James Lowe

12:00 TGE, rotavirus, Salmonella, and other pathogens in the post-weaned pig including a frequency summary
Greg Stevenson

12:25 Panel discussion
<table>
<thead>
<tr>
<th>SPEAKERS</th>
<th>Location</th>
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<tbody>
<tr>
<td>Matt Ackerman</td>
<td>Greensburg, IN</td>
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<tr>
<td>Sandra Amass</td>
<td>West Lafayette, IN</td>
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<tr>
<td>Mike Apley</td>
<td>Ames, IA</td>
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<tr>
<td>Greg Armbruster</td>
<td>Plymouth, MN</td>
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<td>Charlie Arnot</td>
<td>Kansas City, MO</td>
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<td>Tom Baas</td>
<td>Ames, IA</td>
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<td>Poul Baekbo</td>
<td>Kjellerup, Denmark</td>
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<td>Scott Bailey</td>
<td>Ephrata, PA</td>
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<td>Butch Baker</td>
<td>Clinton, NC</td>
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<td>Angela Baysinger</td>
<td>Bruning, NE</td>
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<td>Dana Beckler</td>
<td>St. Paul, MN</td>
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<td>Keith Behnke</td>
<td>Manhattan, KS</td>
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<td>Jennifer Boorman</td>
<td>St. Paul, MN</td>
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<td>Brad Bosworth</td>
<td>Altoona, IA</td>
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<td>James Bradford</td>
<td>Kalamazoo, MI</td>
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<td>Mike Brumm</td>
<td>Concord, NE</td>
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<td>Meghann Brumsted</td>
<td>Philadelphia, PA</td>
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<td>Brian Buhr</td>
<td>St. Paul, MN</td>
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<td>A.J. Buret</td>
<td>Calgary, AB</td>
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<tr>
<td>Randy Bush</td>
<td>Flora, IN</td>
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<td>James Carney</td>
<td>Des Moines, IA</td>
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<td>Amy Carroll</td>
<td>West Lafayette, IN</td>
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<td>Glen Cassar</td>
<td>Guelph, ON</td>
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<td>Christopher Chase</td>
<td>Brookings, SD</td>
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<td>Eric Christianson</td>
<td>Lake Mills, IA</td>
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<td>Jane Christopher-Hennings</td>
<td>Brookings, SD</td>
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<td>Archie Clutter</td>
<td>St. Louis, MO</td>
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<td>Joe Connor</td>
<td>Carthage, IL</td>
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<td>Paul Coussens</td>
<td>East Lansing, MI</td>
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<td>Peter Davies</td>
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<td>Scott Dee</td>
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<td>John Deen</td>
<td>St. Paul, MN</td>
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<td>Malcolm DeKryger</td>
<td>Demotte, IN</td>
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<tr>
<td>Robert Desrosiers</td>
<td>St-Hyacinthe, QC</td>
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<tr>
<td>Luc Dufresne</td>
<td>Franklin, KY</td>
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<td>Mark Engle</td>
<td>Colorado Springs, CO</td>
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<td>Tim Fakler</td>
<td>Eden Prairie, MN</td>
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<td>Larry Firkins</td>
<td>Urbana, IL</td>
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<td>William Flowers</td>
<td>Raleigh, NC</td>
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<td>George Foxcroft</td>
<td>Edmonton, AB</td>
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<td>David Francis</td>
<td>Brookings, SD</td>
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<td>Charles Francisco</td>
<td>Mahomet, IL</td>
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</tbody>
</table>
SPEAKERS (continued)

Brad Freking  Jackson, MN
Tom Gillespie  Rensselaer, IN
Tony Goldberg  Urbana, IL
Harold Gonyou  Saskatoon, SK
Robert Goodband  Manhattan, KS
Larry Granger  Riverdale, MD
Roberto Guedes  Belo Horizonte, MG, Brazil
Angie Haag  Champaign, IL
Joseph Hahn  Mankato, MN
Pat Halbur  Ames, IA
Dirk Hanson  Wamego, KS
D.L. “Hank” Harris  Ames, IA
Keith Haydon  Alden, IA
Christa Helmka  Guelph, ON
Steve Henry  Solomon, KS
Joseph Hermann  Ames, IA
Heather Hilbrands  Ames, IA
Howard Hill  Iowa Falls, IA
Rick Hill  Ames, IA
Larry Himmelberg  Seward, NE
Bill Hollis  Carthage, IL
Marvin Hoogland  Ames, IA
Thayer Hoover  Spirit Lake, IA
David Hurley  Athens, GA
Dan Hurnik  Charlottetown, PEI
Doug Hutchinson  Creston, NC
Eva Jablonski  Cary, NC
Tim Jackson  Westbrook, ME
Anna Johnson  Clive, IA
Gwendolyn Jones  Herzogenburg, Austria
Locke Karriker  Ames, IA
Ross Kiehne  St. Peter, MN
David Kinker  Ames, IA
Keith Kinsley  St. Paul, MN
Darwin Kohler  Rochester, MN
Michael Kuhn  Cascade, IA
Chris Kuster  Tolono, IL
John Lawrence  Ames, IA
Mike Lemmon  Albion, IN
Brad Leuwerke  Ames, IA
Donald Levis  Columbus, OH
Hardi Liauw  Westbrook, ME
SPEAKERS (continued)

Boh Chang Lin Ralston, NE
Merlin Lindemann Lexington, KY
Michael Lohuis St. Louis, MO
Tim Loula St. Peter, MN
James Lowe Carthage, IL
A.T. Loynachan Ames, IA
John Mabry Ames, IA
Kimberley MacDonald Charlottetown, PEI
Barb Martin Ames, IA
Jeremy Mathers Chicago Heights, IL
John McGlone Lubbock, TX
Gavin Meerdink Urbana, IL
David Meisinger Des Moines, IA
Robert Morrison St. Paul, MN
Morgan Morrow Raleigh, NC
Michael Murtaugh St. Paul, MN
Darrell Neuberger Garner, IA
Eric Neumann Story City, IA
Simone Oliveira Worthington, MN
Tanja Opriessnig Ames, IA
Gary Osweiler Ames, IA
Brian Payne Savoy, IL
Ginger Pelger West Des Moines, IA
Mia Pettek Loveland, CO
Jim Pettigrew Urbana, IL
Michael Pierdon Philadelphia, PA
Roman Pogranichny Ames, IA
Sarah Probst Miller Carthage, IL
David Pyburn Ankeny, IA
Chris Rademacher Jackson, MN
Vicki Rapp-Gabrielson Elkhorn, NE
Tom Rathje Seward, NE
David Reeves Athens, GA
Darwin Reicks St. Peter, MN
Mike Roof Ames, IA
Marcos Rostago Ames, IA
James Schneider Holmen, WI
Kent Schwartz Ames, IA
Michael Senn Newton, KS
Samia Shawky Greenport, NY
Barrett Slenning Research Triangle Park, NC
Harry Snelson Burgaw, NC
SPEAKERS (continued)

Glenn Songer  Tucson, AZ  
Greg Stevenson  West Lafayette, IN  
Doug Stine  Bucyrus, KS  
Erin Strait  Webster City, IA  
Barbara Straw  East Lansing, MI  
Paul Sundberg  Ames, IA  
Eileen Thacker  Ames, IA  
Ron Thibault  Osborne, KS  
Bob Thompson  Franklin, KY  
Timothy Trayer  Denver, PA  
Margaret Van Ginkel  Urbandale, IA  
Mike Veenhuizen  Greenwood, IN  
Jozef Vercruysse  Merelbeke, Belgium  
Amy Vincent  Ames, IA  
Ralph Vinson  Oneida, IL  
Maria Carol Walsh  West Lafayette, IN  
Don Walter  Iowa City, IA  
Mark Weaver  Webster City, IA  
Richard Webby  Memphis, TN  
Doug Weiss  Clive, IA  
Ron Wesley  Ames, IA  
Tom Wetzell  Wells, MN  
Noel Williams  Franklin, KY  
Mark Wilson  Verona, WI  
Warren Wilson  Sun Prairie, WI  
Bob Woerman  Brandon, SD  
Paul Yeske  St. Peter, MN  
Kyoung-Jin Yoon  Ames, IA  
James Zahn  Harbor Beach, MI  
Federico Zuckermann  Urbana, IL
18th Congress of the International Pig Veterinary Society

Healthy Pigs for Wholesome Pork
Science Meets Practice

June 27-July 1, 2004
Hamburg, Germany

For information on registration, abstract submission, scientific program, tours, etc., visit the IPVS 2004 website: www.ipvs.de
36th Annual Meeting
March 5-8, 2005
Westin Harbour Castle
Toronto, Ontario Canada
8:00 AM
ABVP Certification Entrance Exam  
Location: Dubuque (third floor)

SWAPSM Educator Training  
Location: Salon A (second floor)

9:00 AM
Registration Desk open (third floor)

1:00 PM SEMINARS
#1 PRRSV: Applying epidemiology (see page 11)  
Location: Salon D (second floor)

#2 Boar stud topics (see page 12)  
Location: Council Bluffs (third floor)

#3 Emerging disease (see page 13)  
Location: Davenport (third floor)

#4 Animal welfare is not just “The Right Thing”:  
How to use it to affect production (see page 14)  
Location: Salon B (second floor)

#5 Modern facility design concepts (see page 16)  
Location: Salon C (second floor)

#6 Foreign Animal Disease (see page 17)  
Location: Dubuque (third floor)

6:00 PM  
RECEPTION  
Sponsored by PFIZER ANIMAL HEALTH  
Location: Iowa Ballroom (second floor)
7:00 AM
Registration Desk open (third floor)

8:00 AM SEMINARS
#7 Skills and tools for practitioners (see page 19)
  Location: Salon FGH (second floor)
#8 Optimizing reproductive efficiency (see page 20)
  Location: Salon E (second floor)
#9 Applied swine medicine: Taking it to the farm
  (see page 21)
  Location: Salon D (second floor)
#10 Fireproof your assets – before the match is
  struck! (see page 22)
  Location: Davenport (third floor)
  Co-sponsored by AASV Foundation
#11 The business of veterinary medicine for the
  soon-to-be-veterinarian (see page 23)
  Location: Salon ABC (second floor)
#12 Quality control in the feed mill (see page 25)
  Location: Dubuque (third floor)

1:00 PM
Session #1: Student Seminar (see page 26)
  Location: Salon ABC (second floor)
  Co-sponsored by Alpharma Animal Health
Session #2: Industrial Partners (see page 28)
  Location: Salon D (second floor)
Session #3: Industrial Partners (see page 30)
  Location: Salon E (second floor)
Session #4: Industrial Partners (see page 32)
  Location: Salon FGH (second floor)
QAV training: Trichinae certification (see page 34)
  Location: Dubuque (third floor)

6:00 - 8:00 PM
WELCOMING RECEPTION
Sponsored by SCHERING PLOUGH

8:30 - 11:00 PM
STUDENT RECEPTION
Sponsored by INTERVET
  Location: Iowa Ballroom (second floor)
MONDAY
MARCH 8

7:00 AM
Registration Desk open (third floor)
Spouse Hospitality Suite: Salon C (second floor)
Spouse Tour departs at 9:30 AM

8:00 AM
HOWARD DUNNE MEMORIAL LECTURE
Location: Iowa Ballroom (second floor)
“Epidemiology, diagnosis, and control of swine diseases” Speaker: Robert Desrosiers

9:00 AM
GENERAL SESSION (see page 37)
Location: Iowa Ballroom (second floor)

12:00 NOON
LUNCHEON
Sponsored by BOEHRINGER INGELHEIM VETMEDICA, INC.
Location: Des Moines Exhibit Hall (third floor)

1:00 PM
GENERAL SESSION (see page 38)
Location: Iowa Ballroom (second floor)

6:00 PM
AASV AWARDS RECEPTION
Sponsored by ELANCO ANIMAL HEALTH
Location: Des Moines Exhibit Hall (third floor)

Support the AASV Foundation
Bid in the Silent Auction today!
Don’t miss the Live Auction tonight!
TUESDAY  
MARCH 9  

7:00 AM  
Registration Desk open (third floor)  

BREAKFAST AND ANNUAL  
BUSINESS MEETING  
Location: Des Moines Exhibit Hall (third floor)  

9:00 AM  
CONCURRENT SESSIONS:  

#1 Emerging technologies (see page 39)  
Location: Salon ABC (second floor)  

#2 Research Topics (see page 40)  
Location: Salon D (second floor)  

#3 Current production issues (see page 42)  
Location: Salon E (second floor)  

#4 Diagnosis, treatment, control, and elimination of diarrheal diseases in growing pigs (see page 43)  
Location: Salon FGH (second floor)  

1:00 PM  
MEETING CONCLUDES  

Visit the Commercial Technical Tables  

OPEN:  
Monday, March 8  
9:00 am - 5:00 pm  

Tuesday, March 9  
8:00 am - 1:00 pm  

Location: Des Moines Exhibit Hall (third floor)
Thank you to ALL of the members, companies and organizations 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 maintain the highest quality programming at a reasonable cost for our members.