The AABP Program Committee invites you attend the **52nd AABP Annual Conference** in beautiful St. Louis, where you will find this year’s program to be a Gateway to Success!

The 2019 conference will feature:

- General topics, clinical skills, beef and dairy specific programming, practice management and more
- Student and new graduate programming
- 10 Clinical Forums
- 17 Preconference Seminars
- Awards presentations
- Scholarship winners
- Joint meeting with the American Association of Small Ruminant Practitioners
- Joint meeting with the National Mastitis Council
- Amstutz Auction, 5K, tours and other exciting events
- Exhibit Hall with the latest in products and services
- Networking with peers, colleagues and new acquaintances!

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2019 Program Committee

Bottom Row, L-R: Drs. Dan Goehl, Edouard Timsit, Calvin Booker (Chair), Becky Funk
Middle Row, L-R: Drs. David Welch, Carie Telgen
Top Row, L-R: Drs. Ryan Rademacher, Keelan Lewis, Jess McArt, Meredyth Jones
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### Platinum Sponsors
- $6,000+
  - Boehringer Ingelheim
  - Diamond V
  - Merck Animal Health
  - Partnar Animal Health
  - Zoetis

### Gold Sponsors
- $6,000
  - Bovine Veterinarian Magazine

### Silver sponsors
- $3,000
  - Hoard’s Dairyman
  - Newport Laboratories

### Bronze Sponsors
- $1,500
  - Epitopix
  - Pneu-Dart

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### AABP MISSION STATEMENT
The AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS is an international association of veterinarians serving society as leaders in cattle health, welfare and productivity.

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### AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS
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1-800-COW-AABP (1-800-269-2227)
Email: aabphq@aabp.org • https://aabp.org

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The 52nd Annual Conference of the American Association of Bovine Practitioners
Your 2018-2019 AABP Officers and Board of Directors
Welcome You to the 52nd AABP Annual Conference!

Back Row, L-R: Dr. Bryan Halteman (Treasurer), Dr. Pat Gorden (Incoming Vice President), Dr. Randall Hinshaw (District 2), Dr. Carl Meyer, Jr. (District 7), Immediate Past President Dr. Mike Apley, President Dr. Glenn Rogers, Dr. Wayne Shewfelt (District 12), Dr. Arn Anderson (District 8), Dr. Wil Schuler (District 5), Dr. Mark Hardesty (District 4)

Front Row, L-R: Dr. Lee Jones (District 3), Dr. Dale Moore (District 11), Dr. Gerry Koenig (District 10), Dr. Christine Navarre (Parliamentarian), Dr. Vickie Cooper (District 6), Dr. Eric Behlke (District 13), Vice President Dr. Carie Telgen, Dr. Jeff Ondrak (District 9), Dr. Liz Brock (District 1), President-Elect Dr. Calvin Booker
Make Your Hotel Reservations by AUGUST 19 to Guarantee AABP Conference Rates!

The AABP conference hotels offer discounted rates until August 19, 2019. For BEST AVAILABILITY and to guarantee reduced rate, reserve by phone or online 24/7 at www.aabp.org. by August 19, 2019. Individual attendee reservations can be cancelled up to 72 hours prior to arrival date. Cancellations after that time will result in a one night non-refundable guest room charge/taxes to the attendee’s credit card on file. An early departure fee of one night’s room/tax will be charged to the credit card on file if you depart prior to your scheduled departure date without notifying the hotel at or prior to check in. Request changes and cancellations through the housing provider until August 19, 2019 via the website, email aabp@experient-inc.com or call 800-967-8852. Contact the hotel regarding changes and cancellations on/after August 27, 2019.

CONFERENCE HOTEL: MARRIOTT ST. LOUIS GRAND
800 Washington Avenue, St. Louis, MO 63101

The Marriott St. Louis Grand Hotel features modern guest rooms, lounge and restaurant, the grab-and-go 8th Street Pantry and state-of-the-art fitness center. Close to many downtown attractions, the Gateway Arch and across from the convention center.

Rates: (USD) Single/Double $179, Triple $189, Quad $199
Parking: Self-park $28 daily/Valet $38 daily

CONFERENCE LOCATION: AMERICA’S CENTER CONVENTION COMPLEX
701 Convention Plaza
St. Louis, MO 63101
Phone: 314-342-5036

AABP guarantees a certain number of hotel rooms at our conference hotels to achieve the lowest rates for attendees. Not staying in the AABP hotel block puts your organization at a financial risk. Please think twice before booking outside of our hotel block.

EMBASSY SUITES ST. LOUIS DOWNTOWN
610 North 7th St., St. Louis, MO 63101

The Embassy Suites St. Louis Downtown is adjacent to the convention center. Two-room suites have one king- or two queen-sized beds, flat-screen TVs, wet bar, microwave, refrigerator, WiFi and high-speed internet. Complimentary breakfast and evening reception, business center, fitness center and heated indoor pool/whirlpool.

Rates: (USD) Single/Double $195, Triple $205, Quad $215
Parking: Valet only, $35/day

AABP general conference registration includes admission to all AABP scientific sessions (Preconference Seminars and Clinical Forums excluded), Exhibit Hall and social events.

Register Online

- Preregister online at https://aabp.org by August 15, 2019. Pay securely online via PayPal with a credit card. After August 15, on-site fees apply. You must preregister for seminars and other events with limited enrollment to be guaranteed acceptance. Certain seminars may be canceled if enrollment is inadequate by August 1, 2019.
- Online registration closes August 29, 2019.
- You can print the online form and mail to the AABP office with a check drawn from a US bank. Checks from outside the US will not be accepted for payment. Printed/mailed registrations must be postmarked by August 1, 2019.

For your security, credit cards are only accepted via our secure online payment system. No faxed or mailed in credit card payments will be accepted. Payment by mail must be made by check. Checks should be made out to AABP. Registrations for residents outside of the U.S. should be made by credit card online. Preconference Seminar and Clinical Forum choices are not secured until your check is received and processed.

Events Free with Registration
Free of Charge But Registration Required:
- Wednesday Welcome Reception (6:00 pm)
- Thursday Breakfast (6:30 am)
- Friday Evening Auction & Dinner (6:00 pm)
- Saturday AABP Gateway Gala (6:00 pm, no charge but tickets required)

Events With Additional Fee Required (register with online form):
- Tours (Wed-Sat).
- Christian Veterinary Mission Breakfast (Sat., 6:30 am, $45)
- 7th Annual 5K Stampede (Sat. 6:30 am, $40)

Special Services
If, under the American Disabilities Act, you require specific aids or services, contact the AABP office at 1-800-COW-AABP or fred@aabp.org. All requests for special assistance must be made no later than August 1, 2019.

Donations to the AABP Amstutz Scholarship Fund and AABP Foundation
You can help educate our future cattle practitioners by donating to the Amstutz Scholarship Fund, and the AABP Foundation which supports advancements in the well-being and productivity of cattle through applied clinical research and scholarship programs that benefit present and future cattle practitioners, on your online registration form. Thank you for supporting your future colleagues!

AABP Cancellation Policy
Cancellation/refund requests must be received via email to aabphq@aabp.org before August 15, 2019 to qualify for a 100% refund. Refund requests received August 16 through September 6 qualify for a 50% refund. Refund requests received after September 6 will be reviewed on a case-by-case basis but may not be eligible for a refund.
Conference Proceedings
Conference proceedings will be mailed to all 2019 conference participants following the meeting and will also be available online at https://aabp.org.

CE Credit
A CE certificate can be printed by logging on to the AABP website and going to My Account. You can print your certificate at any time from this site. Knowledge of your state’s licensure and CE requirements is your responsibility. Scientific sessions and seminars for the AABP conference will be submitted for RACE approval.

The AABP Pocket Guide and conference app with specific times and room numbers for the conference will be available at the registration desk in St. Louis. Sessions and events are listed in order in this printed program, but to look up specific session times prior to the conference, visit https://aabp.org and under the Conference tab, click on Schedule.

Terms and Conditions: By registering for the American Association of Bovine Practitioners Conference (“Conference”), you acknowledge that your registration and permission to attend Conference functions may be refused or revoked for any reason. The Conference further reserves the right to refuse admission to, or eject, any person whose conduct is deemed: 1. disorderly or disruptive by Conference organizers, 2. contrary to the mission of the Conference organizers; or 3. fails to comply with Conference rules or terms and conditions. You agree that any such determination, in the sole discretion of Conference organizers, will result in a termination of your right to attend Conference events without refund.

2019 AABP Preregistration Fees
Preregister until August 15, 2019. On-site fees apply after August 15.

- AABP/AASRP/NMC member: $425
- 1-Day Registration (available to AABP/AASRP/NMC members only): $300
- Non-member: $625
- Graduate Student AABP Member: $195
- Grad Student Non-AABP member: $295
- Veterinary Technician: $125
- Accompanying person: $95
(Accompanying persons have access to Exhibit Hall, Bovine Bucks lunch tickets on Thursday and Friday, and social events. All accompanying persons over the age of 12 must be registered and wear a name badge to all events attended.) Children age 12/under, no charge.
- Clinical Forums: $60 (includes hot breakfast)

Get Connected With the AABP APP!

With the app you will be able to:
- View schedules and announcements.
- View available draft proceedings.
- Evaluate speakers and topics in real-time.
- Add contacts to your phone by scanning a member’s name badge, and their contact information will automatically be added to your phone contacts.
- See which vendors are exhibiting at the conference and where they are located in the Exhibit Hall.
- See if you are a Silent Auction winning bidder and pay for your Silent and Live Auction items on the app.
- Find a St. Louis restaurant or attraction, and check the weather!

Special Lead Retrieval App for Vendors
In addition to the features listed above, this app will enable AABP vendors/ exhibitors to scan an attendee's QR code on name badges to retrieve contact information for sales lead retrieval. Purchase the lead retrieval app in the APP store or contact exhibits@aabp.org for more information on the lead retrieval app.

Register at https://aabp.org

Special Lead Retrieval App for Vendors

Apps will be available at least one month prior to the meeting in the Google Play and Apple’s App store. Search for AABP in the appropriate stores.
## DAILY SNAPSHOTs

### Sunday Daily Snapshot

**Preconference Seminars**

- #1 Quality Milk Production
- #2A Basic Applied Dairy Nutrition

### Monday Daily Snapshot

**Preconference Seminars**

- #1 Quality Milk Production
- #2A Basic Applied Dairy Nutrition
- #3 The Replacement Heifer from Birth to Calving
- #12 Thoracic Ultrasound

### Tuesday Daily Snapshot

**Preconference Seminars**

- #1 Quality Milk Production
- #2B Hands-on Dairy Herd Nutritional Evaluation
- #3 The Replacement Heifer from Birth to Calving
- #4 Gut Health
- #5 Dairy Goat Nutrition
- #7 On-Farm Animal Care Assessment
- #10 NCARG Beef Cattle Genomics
- #11A Evidence-based Decisions - Spreadsheets
- #12 Thoracic Ultrasound
- #15 Turning Data into Information

### Wednesday Daily Snapshot

**Preconference Seminars**

- #3 The Replacement Heifer from Birth to Calving
- #4 Gut Health
- #5 Dairy Goat Nutrition
- #6 Feedlot Cattle Health Programs
- #8 Food Armor® Antimicrobial Stewardship
- #9 Edwin Robertson Advanced Embryo Transfer
- #10 NCARG Beef Cattle Genomics
- #11B Evidence-based Decisions – Data
- #13 Animal Welfare Programs for Cattle Practice
- #14 Captive Bolt/Gunshot Euthanasia
- #16 Adding Value to Beef Cowherd Pregnancy Checks
- #17 Talkin’ Tall Communication Skills

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- Food Animal Educators Symposium
- AABP Welcome Reception Sponsored by Boehringer Ingelheim, page 24

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- Tour: Forest Park “Meet Me in St. Louis”, page 18
- AABP Committee Meetings
- Lunch in the Exhibit Hall (use your Bovine Bucks)
- CABV-ACVB 12th Annual General Meeting, page 16
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FRIDAY DAILY SNAPSHOT

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- AABP Annual Business Meeting and Awards Luncheon
- “The AABP Gateway Gala”, Sponsored by Merck, page 26

As an added benefit of attendance at the 2019 AABP Annual Conference, this program will be submitted for RACE approval. There will be a total of 23 hours of CE available during the conference for veterinarians and 21 hours for veterinary technicians. In addition, all preconference seminars will be submitted for RACE approval on an hour-for-hour basis.

Can’t get to every session you want at the AABP Annual Conference?

Don’t worry! All sessions will be recorded and housed by the Beef Cattle Institute at Kansas State University. And the best part for AABP members? All of the presentations are available for FREE certified continuing education credits! Those presentations that are RACE-approved will be identified as such.

Not only can members access the 2019 conference presentations, but also presentations from 2015-2018 conferences, including the 2018 and 2019 AABP Recent Veterinary Graduate conferences.

Log onto the website at https://aabp.org and go directly to https://aabp.org/members/cont_ed.asp, or on the home page click on the BCI logo.
#1 Quality Milk Production: The Milking Center, Mastitis and Antibiotics

This three-day seminar employs faculty from the Southwest, Upper Midwest and Northeast to bring diverse experiences to the participants. Using an interactive and engaging style of content delivery, we aim to provide practical information on monitoring the milking center for efficient milk harvest, controlling mastitis, and when prevention occasionally fails, economical antibiotic decision making choices for treating mastitis and dry-cow therapy. Tools will be discussed that can help you help your clients through milking-time audits that use both computerized records (e.g. DC305) and electronic tools (e.g. VaDia, Lactocorder) as well as data that can be collected through observation. Current thoughts on controlling various mastitis pathogens will also be discussed. On the third day of the seminar we will get hands-on practice with Dr. Roger Thomson’s mobile parlor. Rumor has it that this might be Dr. Johnson’s last hurrah!

**Fee:** $625  
**Level:** Intermediate  
**Date/Time:** Sunday, September 8  
Monday, September 9  
Tuesday, September 10  
**Coordinator:** Daryl Nydam  
**Faculty:** Andy Johnson, Roger Thomson, Paul Virkler, Brandan Treichler

#2A Basic Applied Dairy Nutrition

The objective of this seminar is to prepare the practicing dairy veterinarian to assist clients in applying dairy nutrition. This includes understanding dairy nutrients, identifying nutrient imbalances, evaluating dairy feeding systems, interpreting feed ingredient test results, and optimizing nutritional management for transition dairy cows. This seminar is for veterinarians who want to acquire the skills needed to evaluate and help solve nutritional management problems on dairy farms. This two-day, didactic seminar is fast-moving and comprehensive. Short reviews of basic nutritional principles are blended with applied topics and current recommendations. Specific areas covered include managing dry matter intake, carbohydrate feeding (including uNDF and aNDFom), energy nutrition, protein feeding, fat feeding, mineral nutrition, vitamin nutrition, byproduct feeds, feed additives, feeding systems, feedbunk management, feeding for milk components, managing transition cows, and preventing metabolic diseases. Feed ingredient evaluation (pH, forage particle length, and grain particle size) are presented in a wet lab format.

**Fee:** $375  
**Level:** Basic  
**Date:** Sunday, September 8  
Monday, September 9  
**Coordinator:** Garrett Oetzel  
**Faculty:** Mike Hutjens, Larry Chase

#2B Hands-on Dairy Herd Nutritional Evaluation

The objective of this seminar is to prepare the practicing dairy veterinarian to assess dairy herd nutritional management and to use a dairy ration evaluation program (AMTS Cattle Pro) to evaluate the nutritional adequacy of the diets consumed by cows on a farm. This seminar is for veterinarians who wish to learn how to collect feeding management information from a dairy herd and then evaluate the details of the nutritional adequacy of the diet. Information will be presented at the basic to intermediate level. Instructors will assume working familiarity with dairy feed ingredients and nutrient definitions. Veterinarians who have previously taken the Basic Applied Dairy Nutrition Seminar (Seminar 2), have received similar basic nutrition training, or have experience using dairy nutrition software should be adequately prepared. Participants must bring their own computers. A trial version of the AMTS Cattle Pro program will be installed on each participant’s computer if needed. Instructors will guide participants through a series of exercises that cover the basics of dairy ration evaluation. Time will be allotted for participants to evaluate information specific to their own clients or example herd data prepared by the instructors.

**Fee:** $225  
**Level:** Basic  
**Date:** Tuesday, September 10  
**Coordinator:** Garrett Oetzel  
**Faculty:** Mike Hutjens, Larry Chase  
**Computers required**

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### REGISTER NOW!

Sign up early for these limited-enrollment seminars. Seminars without adequate registrants are subject to cancellation by August 1, 2019, to facilitate you making alternate travel plans, if necessary. All seminars are from 8:00 am – 5:00 pm.

PRECONFERENCE SEMINARS

#3 The Replacement Heifer from Birth to Calving

Due to the increasing amount of information about the management and nutrition of the replacement dairy heifer, this seminar was expanded to three-days with the addition of calf and heifer housing. It will cover the design and ventilation as well as adapting current facilities for housing for calves and heifers. Management and nutrition of the close-up dry cow and its effects on the neonatal calf, perinatal management of the calf, colostrum management and monitoring colostrum will also be covered. Nutritional management of the milk-fed calf as well as older heifers will be discussed, including the use of waste milk, milk replacer, individual and group feeding systems, and infectious disease prevention, control and treatment with emphasis on the GI tract and respiratory disease. Reproductive management and synchronization programs along with the economics of intensive feeding programs will also be covered.

Fee: $575  
Level: Basic  
Date:  Monday, September 9  
Tuesday, September 10  
Wednesday, September 11  
Coordinator: Bob Corbett  
Faculty: Sandra Godden, Chris Chase, Mike Overton, Geof Smith

#4 Gut Health – The New Paradigm in Production Animal Health

The aim of this two-day seminar is to discuss the role of good health in animal production and the dynamic and essential role the gut plays in it. The seminar will cover different aspects of the gut microbiome and important factors in gut health maintenance and disease. A platform will be provided to present and discuss the latest research findings, from the fundamental aspects of defining and measuring gut health to the complex and interactive roles of the intestinal microbiota, intestinal epithelium, immune cells and nutrition. This symposium offers an opportunity to engage in scientific discussions and exchange opinions with university faculty, industry researchers and practicing veterinarians.

Fee: $400  
Level: Basic  
Date:  Tuesday, September 10  
Wednesday, September 11  
Coordinator: Bob Van Saun  
Faculty: Garland Dalhke, Andrea Mongini  
Computers required

#6 Feedlot Cattle Health Programs

Many veterinarians work with cattle feeders to develop cattle management and health programs. This practical, clinical-based seminar will cover topics associated with getting cattle started on feed and monitoring cattle health. Basic receiving cattle nutrition including starter ration, feed mixing and feed delivery will be discussed. Also covered will be processing facilities, low-stress cattle handling, processing protocols and cattle classification. We will have a discussion on cattle comfort, pen riding and sick animal identification. Participants will develop case definitions for feedlot diseases, injuries and treatment guidelines for clients to follow and basics to feedlot necropsy. During the day, participants will discuss feedlot health data to develop an animal health dashboard and interpretation of data to get to the diagnosis of cattle health.

Fee: $225  
Level: Intermediate  
Date:  Wednesday, September 11  
Coordinator: Dan Thomson  
Faculty: Bob Smith, Dee Griffin

#7 Preparing Your Clients for an On-Farm Animal Care Assessment

The National Dairy Farmers Assurance Responsible Management (FARM) Program and the National Beef Quality Assurance will provide insight on the role of bovine practitioners in dairy and beef animal care on-farm evaluations and assessments and
how to assist clients in preparation for successful evaluation and assessments. The FARM Program works with dairy farmers, the producer community and industry partners to show customers and consumers that the dairy industry is taking the very best care of cows and the environment, producing safe, wholesome milk and adhering to the highest standards of workforce development. Currently, 98% of the United States milk supply participates in the FARM Animal Care program. The BQA Feedyard Assessment is an on-site educational tool that allows for assessing and benchmarking key indicators of animal care and well-being as well as feedyard conditions. The Feedyard Assessment focuses on three main areas – animals, records, protocols and facilities and equipment.

**Fee:** $75  
**Level:** Basic  
**Date:** Tuesday, September 10  
**Coordinator:** Emily Yesier Stepp  
**Faculty:** Chase DeCoite

### #8 Antimicrobial Stewardship in Animal Agriculture: Food Armor’s HACCP-based Approach

An antimicrobial stewardship program robust enough to meet today’s consumer expectations requires that every veterinarian move beyond a basic VCPR. It demands a program based on recognized and accepted principles of antimicrobial stewardship for veterinarians in their interactions with food animal producers. Food Armor®, a team of food industry professionals ranging from producers and veterinarians to packers, processors and food marketers, agree the best solution for ensuring a successful antimicrobial stewardship program is a collaborative effort across the entire food animal industry. Antimicrobial stewardship principles have already been created by industry stakeholders in the food supply chain. The Food Armor curriculum is designed to provide every veterinarian with the knowledge and skills necessary to build a robust antimicrobial stewardship program, one farm at a time.

**Fee:** $175  
**Level:** Basic  
**Date:** Wednesday, September 11  
**Coordinator:** Katie Mrdutt  
**Faculty:** John Garber

### #9 Edwin Robertson Advanced Embryo Transfer

This seminar will provide participants with up-to-date information about the embryo transfer industry, and the challenges facing today’s bovine ET practitioner. Gabriel Bo will lead the discussion on recipient management and the questions and challenges facing this aspect. He will provide data on fixed-time ET with/without estrus detection, review the use of ET as a tool to mitigate poor reproductive performance during periods of heat stress, and discuss periparturient recipient management. Kevin Lindell will give an overview of incorporating a large-scale ET program into a commercial dairy and will cover recipient selection and synchronization, pregnancy results and losses, and the impact on herd reproductive performance. Alvaro Guerra will discuss pregnancy loss with IVP-derived embryos. Given the rising costs of FSH products, there is renewed interest in the collection of oocytes from non-stimulated donors. Guerra and Bo will present their experiences on this topic and discuss the optimal use of sexed semen in superstimulated donors and the performance of newer sexed-semen products. We will also cover the do’s and don’ts of donor management, particularly in the area of nutrition and its potential impact on oocyte quality. We’ll finish with a roundtable discussion covering topics related to the practical application of ET work (embryo placement technique/depth, recipient/embryo synchrony, temperature sensitivity of IVP embryos, gun warmer use and temp, etc.). We will solicit questions from the group and make every effort to incorporate these in our roundtable portion.

**Fee:** $300  
**Level:** Intermediate  
**Date:** Wednesday, September 11  
**Coordinator:** Kevin Lindell  
**Faculty:** Gabriel Bo, Alvaro Guerra

### #10 The National Center for Applied Reproduction and Genomics (NCARG) in Beef Cattle

Veterinarians serve as key information sources for U.S. beef producers and are essential in facilitating the adoption of various reproductive procedures and technologies. There are now numerous ways in which practitioners are able to become more actively involved in reproductive management of our nation’s beef herds. Further, progressive veterinarians provide consulting related to genetics and genomics, in addition to continued application. We will solicit questions from the group and make every effort to incorporate these in our roundtable portion. The Center will provide ongoing support for the US beef cattle industry utilizing economic impacts resulting from the adoption of reproductive and genomic technologies to equip industry stakeholders with the financial rationale for their adoption and continued application.

**Fee:** $100  
**Level:** Intermediate  
**Date:** Tuesday, September 10  
**Wednesday, September 11  
**Coordinator:** David Patterson  
**Faculty:** Mike Smith, Jordan Thomas, Jared Decker, Scott Brown  
**Computers required**
**Tools and Concepts for Making Evidence-Based Decisions: Level 1 – Using Spreadsheets**

The objectives of this seminar are to understand how simple measures of health and performance can enable veterinarians to better help their clients and provide additional income opportunities for their practices, and to know how to summarize and analyze data using spreadsheet functions, graphs and pivot tables. The ability to work with numbers can help us make better decisions, provide stronger, evidence-based recommendations to clients, and create new practice opportunities. Using data to aid decision making requires the veterinarian to:
1. understand how to think quantitatively;
2. know how to use tools – like spreadsheets – to work with numbers; and
3. apply quantitative skills to medical problems. Level 1 is an Excel training workshop. This workshop will use a computer laboratory (28 computers) provided by the faculty. It is helpful, but not required, if attendees have some familiarity with computer spreadsheets. Attendees will go home with knowledge that can expand the services offered by their practice.

- **Fee:** $225
- **Level:** Basic
- **Date:** Tuesday, September 10
- **Coordinator:** David Smith
- **Faculty:** Robert Wills, Kimberly Woodruff

**Tools and Concepts for Making Evidence-Based Decisions: Level 2 – Making Better Decisions with Data**

The objectives of this seminar are to understand how to use animal health and performance data to make appropriate inferences about the occurrence of health and performance events, understand probability statistics and to be able to apply these tools and concepts to specific cattle practice scenarios (e.g. reproductive performance, heifer development, diagnostics, investigation of disease and impaired performance). Some of the things that can be done with data analysis software include preparing summary reports (descriptive statistics), discovering relationships by statistical analysis, visualizing relationships using graphs, sorting and categorizing data, creating what-if scenarios to evaluate a variety of circumstances simultaneously, using known probability distributions to estimate the likelihood of something happening, and incorporating uncertainty by simulating data. This workshop will use a computer laboratory (28 computers) provided by the faculty. Level 2 attendees should know how to use computer spreadsheets (or attended Level 1). Attendees will go home with knowledge that can expand the services offered by their practice.

- **Fee:** $225
- **Level:** Intermediate
- **Date:** Wednesday, September 11
- **Coordinator:** David Smith
- **Faculty:** Robert Wills, Kimberly Woodruff

**Thoracic Ultrasound: An Objective Assessment of Lung Disease in Calves**

Calfhood pneumonia continues to be a challenge for producers. This seminar will give you the tools to objectively assess lung health in calves using lung ultrasound in addition to other tools when working up a problem on farm. This is a two-day seminar with day one in the classroom and day two as a wetlab at the Purina Research Farm.

- **Fee:** $175
- **Level:** Intermediate
- **Date:** Wednesday, September 11
- **Coordinator:** Jim Reynolds
- **Faculty:** Jan Shearer, Paul Plummer

**Introduction to Captive Bolt/Gunshot Euthanasia of Livestock**

Interested in captive bolt or gunshot euthanasia of livestock, but don’t know how to start? Unfamiliar or uncomfortable with firearms but recognize the need for residue-free
euthanasia of livestock in your practice? This one-day introductory seminar will provide basic instruction on gunshot and captive bolt euthanasia with an emphasis on cattle and small ruminants. The seminar will include a mixture of lecture, small-group and individual hands-on training covering methodology, safety, legal considerations and proficiency. All attendees will have the opportunity to fire penetrating captive bolt and multiple calibers of pistol and rifle in a supportive environment under the guidance of veterinary users and certified firearms trainers. The seminar will be conducted off-site at a local firearms instructional range; transportation to/from conference venue and lunch will be provided.

**Fee:** $375  
**Level:** Basic  
**Date:** Wednesday, September 11  
**Coordinator:** Kelly Still-Brooks  
**Faculty:** Renee Dewell, Grant Dewell

### #15 Turning Data into Information

In the morning, beef veterinarians will learn how to collect data chute-side using a tablet and spreadsheets. Participants will be taught to create and interpret management reports for use at pregnancy check, calf processing, breeding soundness exam and heifer development. In the afternoon, participants will learn how to take these individual management event reports and turn them into a year-long production report. This session will include breaking into groups to analyze actual yearly data from a beef farm and then learning how to present this information to clients in the form of an annual meeting. These reports can be used in large and small herds alike. They have shaped the way I practice and allowed me to become part of the management team for my clients.

**Fee:** $150  
**Level:** Basic  
**Date:** Tuesday, September 10  
**Coordinator:** John Bolinger  
**Faculty:** Matt Schreck  
**Tablet required**

### #16 Adding Value to Beef Cowherd Pregnancy Checks

Determining pregnancy status of beef cows is an important service both as a major source of income for veterinary practices as well as a cost-effective source of valuable information for cow-calf producers. But, in order to increase the value of pregnancy status information and to give veterinarians a competitive advantage against other methods for identifying open cows, veterinarians have the opportunity to add value to pregnancy status determination by using fetal age estimates to create charts to evaluate and display pregnancy percentages by 21-day periods. Evaluating the breeding season by 21-day periods and by animal age and/or other management groups is useful to practitioners investigating herds with reproduction short-falls by identifying time periods within the breeding season when cows were not becoming pregnant. In addition, easy-to-read charts can enhance communication between the veterinarian and beef producer by illustrating the results of fetal aging.

**Fee:** $250  
**Level:** Intermediate  
**Date:** Wednesday, September 11  
**Coordinator:** Bob Larson  
**Faculty:** Brad White  
**Computer required**

### #17 Talkin’ Tall: Elevate your Success by Standing on Solid Communication Skills

Regardless of our station in the profession - as clinicians, educators, researchers or leaders – our success is often affected by our ability to communicate with clients, students, colleagues and team members. Communication skills are vital, yet we have received little training in basic techniques or how to apply them. In this seminar, two colleagues who share a passion for public speaking, leadership and helping others succeed will share tips, tricks and techniques for better communications. Participants will come away from this session with:

- A toolset for tailoring a presentation that is engaging and memorable.
- All-hours access to the lockbox where confidence is stored and how to find and use it in a presentation.
- Insights on conversational/coaching/consulting communication skills that will lift leadership and enhance professional value.

Participants will find this 8-hour program to be energetic, interactive and too short.

**Fee:** $225  
**Level:** Basic  
**Date:** Wednesday, September 11  
**Coordinator:** Morgan McArthur  
**Faculty:** W. Mark Hilton
JOIN IN

BUY LUNCH IN THE EXHIBIT HALL USING YOUR BOVINE BUCKS

THURSDAY
12:15 pm–1:30 pm

FRIDAY
12:15 pm–1:45 pm

All AABP registrants will receive BOVINE BUCKS lunch tickets for a complimentary lunch Thursday and Friday in the Exhibit Hall. Find your tickets behind your name badge holder and present to the cashier at lunch.

BUY LUNCH IN THE EXHIBIT HALL USING YOUR BOVINE BUCKS

Invest in the Future of Bovine Medicine!

The AABP Foundation supports advancements in the well-being and productivity of cattle through applied clinical research and scholarship programs that benefit present and future cattle practitioners, producers and the public.

FOUNDATION COMPETITIVE RESEARCH GRANTS
The AABP Foundation financially supports clinically relevant research in bovine medicine that practitioners can immediately apply. Graduate veterinarians can submit their research projects in the annual AABP Foundation Competitive Grant competition.

You can donate on your online registration form (available at https://aabp.org), at the AABP registration desk at the conference, or by calling AABP at 419-496-0685.

Thank you for your support!

Find out more at https://foundation.aabp.org

The AABP Annual Conference is 52 years old! Won’t you give $52 to the AABP Foundation to help support its mission?
You are invited to the 12th Annual General Meeting of the CABV/ACVB

THURSDAY, SEPTEMBER 12 • 12:15 - 1:30 pm

Members of the Canadian Association of Bovine Veterinarians/Association Canadienne des Vétérinaires Bovins (which includes all Canadian bovine regional associations) are encouraged to attend this General Meeting.

Pick up lunch and bring it with you!

CABV/ACVB continues to consult on many national issues. Be updated on CABV/ACVB’s activities over the past year, and add your voice on concerns of national importance to the bovine industry in Canada.

All CABV/ACVB Members (WCABP, OABP, AMVPQ, ABPA) are encouraged to attend both events.

Join other CABV/ACVB members from across the country for a social sponsored by Vetoquinol on Friday, September 13 from 8:00 – 10:00 pm.

Watch for further details!

12TH ANNUAL AABP JOB FAIR

Thursday, September 12
(new after the Exhibit Hall Wine & Cheese Reception)
7:00-9:00 pm

Fourth-year students plus food-/mixed-animal practitioners can meet and discuss future study and working relationships. Promote your practice and available jobs, or meet practices offering jobs.

Sign up to participate when you register for the conference. Questions?
Contact Dr. Fred Gingrich at fred@aabp.org.

Open Mic Story Night
With storyteller and poet, Ron McDaniel

Campfire stories from the barnyard to the office. Join Ron McDaniel for a night of drinks, fun and tales with colleagues and friends.

Ticket Prices:
$25 in advance
$35 at the door

Friday, September 13
8:30-10:30 pm
Following the Zoetis Dinner

All proceeds benefit: The Sam Guss Student Education Fund.
The National Mastitis Council is meeting jointly with AABP in 2019!

What’s in store from NMC Thursday and Friday?

- Milk quality
- Milking system evaluation
- Milk quality labs in-clinic
- Treatment protocols and recordkeeping
- Mentoring milkers and the language barrier
- Bedding management
- NMC Research Summaries
- And more!

A wide variety of timely topics addressing sheep, goats and other small ruminants will be presented by experts in the field on Thursday and Friday.

AASRP sessions include:

- On-farm welfare
- Disbudding
- Euthanasia
- Feeds and VFDs
- Bluetongue
- Enterotoxemia
- Necropsy
- AASRP Research Summaries

Practice Management Sessions Will Be Your Gateway to Success!

The AABP Veterinary Practice Sustainability Committee will offer sessions and tools to make your practice a success, including:

- Technical investments in practice
- Inventory management
- Managing conflict
- Onboarding/assimilation into practice
- Buying, selling and exit strategies
- Career development and motivation

Join us Thursday and Friday to take the next steps!

Follow the herd to AASRP sessions!

Practice Tips
Saving the Best for Last!

The always-popular Practice Tips Session will not disappoint Saturday afternoon!

Featured will be:

- Generating Consulting from Nothing: Turn Down Time into Productive Consulting – Eric Rooker
- Establish Veterinary Value with Medical LDA Correction Training for Clients – Earl Aalseth
- New Alternative to the Traditional Vet Box – Jessica Laurin
- Out of Sight: Vision Aids for the Bovine Veterinarian – Dan Thomson
- Elimination of Variables Associated with the Bovine Breeding Soundness Exam – Chance Armstrong
- A Novel Approach to Post-Abortion Sample Collection – Joan Rowe
The 52nd Annual Conference of the American Association of Bovine Practitioners

**TOUR OPTIONS**

**Tour 1: Wednesday, September 11**

Buses leave at 7:00 am • Cost: $25 (includes lunch)

**PURINA LARGE ANIMAL NUTRITION RESEARCH CENTER**

This is a behind the scenes tour of our best in class Large Animal Nutrition Research Center. Attendees will tour Purina’s equine, dairy, beef and small ruminant facilities to give attendees insight into how Purina’s research impacts the feeds they sell.

The Center has 3,000 animals on site including beef and dairy cattle, horses, poultry and swine, feedlot facilities and brood cows on pasture, and tools such as a high-speed equine treadmill and birth weight data on 2,400 litters and 30,000 pigs.

**NOTE:** For biosecurity reasons, any attendees have to have been in the U.S. for five days before they can travel to the Purina farm.

**Tour 2: Thursday, September 12**

Time: 9:00 am – 1:00 pm • Cost: $40

**FOREST PARK “MEET ME IN ST. LOUIS” TOUR**

This itinerary begins with a driving overview of Forest Park given by your Destination St. Louis tour guide highlighting the history as the site of the 1904 World’s Fair. Your coach will shuttle between the St. Louis Science Center and Planetarium, the Missouri History Museum, the St. Louis Zoo and the St. Louis Art Museum. Although the shuttle will run between all four attractions, it is recommended that guests select two attractions to visit in order to make the most of their experience.
SIGHTS OF ST. LOUIS

This itinerary includes a driving overview of downtown St. Louis, a tram ride at the Gateway Arch and a reservation on a public tour at Anheuser-Busch Brewery.

Tour 3: Friday, September 13
Time: 8:30 am – 1:30 pm • Cost: $75

Tour 4: Saturday, September 14
Time: 9:00 am – 1:00 pm • Cost: $75

LITTLE TASTE OF ST. LOUIS

This tour includes a driving overview of the Loop, Soulard, Lafayette Square, a stop on The Hill and at Ted Drewes Frozen custard. Treats include Fitz’s Root Beer, toasted ravioli, Ted Drewes Frozen Custard, Gus’ Pretzels and Gooey Butter Cake.
THURSDAY, SEPTEMBER 12

THURSDAY MORNING

Diamond V Breakfast and Nutrigenomics: *Nutrigenomics to Enhance Immunity, Health and Well-Being*
Mario Vailati Riboni

**CLINICAL FORUMS 1***
(fee required)

1. Selective Dry Cow Therapy & Culture-based Mastitis Therapy – Daryl Nydam/Michael Capel
2. Applied Fluid Therapy for Beef Cattle – Geof Smith
3. Removing Obstacles to Success in the Youngstock Program – Sandra Godden
4. Cultural Influences on Decision Making and Success in Dairy Operations – Mark Thomas
5. Raising Dairy Beef – Stuart Hall/Eric Behlke

*Clinical Forums 2 is Saturday morning*

AASRP SMALL RUMINANTS

- Evaluating On-farm Welfare of Sheep and Goats – Melissa Hempstead
- Captive Bolt Euthanasia of Small Ruminants – Kelly Still-Brooks

AABP KEYNOTE ADDRESS

- You Got It Wrong! What Success Really Means – Dan Grooms
- Finding and Defining Your Success – Callie Willingham

THURSDAY AFTERNOON

**CLINICAL SKILLS SESSION**

- Medical Ultrasound of the Bovine Abdomen – Robert Streeter
- Field Anesthesia – Dusty Nagy
- Local Anesthesia Techniques for the Eye and Foot – Meredyth Jones
- Surgical Eye Procedures – Meredyth Jones
- Catheter Placement and Maintenance – Dusty Nagy
- Deep Digital Sepsis – Clinical Differentiation – Robert Streeter
- Therapy of Deep Digital Sepsis – Robert Streeter

**PRACTICE MANAGEMENT**

- A New Doc in Town – Onboarding, Technical Skills and Assimilation into Practice – Mark Hardesty
- Enhancing Personal Resilience – Anna Reddish
- Force Multipliers: Getting the Most out of Your Clinic’s Technical Investment – Eric Rooker
- Inventory Management: Beyond the Numbers – How Too Many Clinics Lose More than $10,000 a Year from Poor Inventory Management – Eric Rooker
- Managing Conflict in Your Practice – Richard Stup

**NATIONAL MASTITIS COUNCIL**

- Milk Quality Pays – Brandon Treichler
- Milking System Evaluation – Where to Start – Roger Thomson
- In-clinic Milk Quality Lab – The Devil is in the Details – Jim Bennett
- Lessons Learned about Managing Treatment Protocols – Adlai Schuler
- Growing a Milk Quality Stream in Practice – Phil Meadows
- Mentoring Milkers while Bridging the Language Barrier – Ashley Zondlak
- Panel Q&A

**RESEARCH SUMMARIES**

Times, titles and presenters will be published in the August or September AABP Newsletter and in the Pocket Guide distributed at the Conference.
STUDENT CASE COMPETITION

Student AABP members enrolled in North American veterinary colleges will compete by presenting interesting cases treated or research projects completed. There will be time for interactive discussion between the presenters and audience to promote relevant comments by experienced practitioners. Contestants are judged on the quality of their investigation or research and quality of the presentation. In 2019, $1,500 will be awarded for the first place clinical case, $1,500 for the first place research presentation, and $750 for the second place research presentation.

- Effect of Bottle or Tube Feeding Colostrum on Calf Serum Total Protein, Average Daily Gain, Morbidity, Mortality and Time Management – Nicole O’Sell
- Guiding Antimicrobial Therapy: Prevalence of Bacteremia in Dairy Calves with Diarrhea – Jessica Garcia
- Evaluation of the Transitioning Dairy Cow Due to a 400% Increase in Milk Fever Cases – Zane Gouker
- Investigation of the Occurrence of Hyperketonemia in Subsequent Lactations in Dairy Cattle – Jennifer Lukach
- Johne’s Disease in an Embryo Donor Beef Cow – Jordynne Walker
- A Case of Late-stage Johne’s Disease in a Young Beef Heifer – Margaret LaFlamme
- Lethargy and Weight Loss in an Adult Wagyu Bull – Autum Ritchey
- Evaluating the Effect of Reduced Water Usage in Sprinklers on Milk Production and Dry Matter Intake – Tracy Potter
- Evaluation of Three Internal Teat Sealants on a Minnesota Dairy Farm System – Taylor Aubrey
- Investigation of Presence, Tissue Distribution, and Concentrations of Residues Associated with Barbiturate Administration for Euthanasia – Maddison Tyrrel

Visit the AABP Poster Sessions

Thursday, September 12, 12:00 pm to Friday, September 13, 5:00 pm
Meet the poster presenters on Friday from 12:15 – 1:15 pm
FRIDAY, SEPTEMBER 13

FRIDAY MORNING

CLINICAL SKILLS

- Respiratory Sampling for BRD Diagnosis – Amelia Woolums
- Sample Testing for BRD Diagnosis – Amelia Woolums
- Bovine Neurologic Exam – Dusty Nagy
- Central Nervous System Diagnostics – Dusty Nagy

AASRP SMALL RUMINANTS

- Ain’t Doin’ Right: The Value of Necropsy in Diagnosis – Joan Bowen
- Best Practices for Disbudding Goats – Melissa Hempstead
- Bluetongue in Small Ruminants – Joan Bowen
- Differences between Calves and Goat Kids Associated with Cautery Disbudding – Melissa Hempstead

PRACTICE MANAGEMENT

- What We Learned from the AABP Human Resource Management Survey – Richard Stup
- Ownership Exit Planning – David McCormick
- Creating Careers for Associates not Just Jobs – Mike Whitehair
- Using Feedback to Enhance Motivation and Performance – Richard Stup

NATIONAL MASTITIS COUNCIL

- Culture-based Treatment Programs – Present and Future – Daryl Nydam
- Recordkeeping, Treatment Protocol Compliance and Measuring Success – Don Niles
- New Tools to Select the Right Treatment – Charlotte Winder
- Chipping Away at the Tough Questions about Bedding Management and Mastitis – Sandra Godden
- NMC Research Summaries

AABP RESEARCH SUMMARY

FRIDAY AFTERNOON

DAIRY SESSION

Cattle Production Veterinarian Hall of Fame Dairy Presentation

10TH ANNUAL AABP STUDENT QUIZ BOWL

Finals will be held in the Exhibit Hall

Buying or Selling a Practice and Avoiding Fatal Mistakes – David McCormick

Minimizing Barriers – Developing Culturally Congruent Training Programs and Tools for the Dairy Workforce – Noa Roman-Muniz

Fostering Success through People – Creating a Positive Work Culture on Farms – Jared Yousey

The Robot Uprising: Successfully Embracing Technology to Produce High-Quality Milk – Brandon Treichler

Ruminate on This – Automatic Monitoring of Cows through the Transition Period – Matias Staangaferro

Pregnant! Using Activity Monitors for Reproductive Success – Matias Staangaferro

Sponsored by Newport Laboratories
### FRIDAY CONT’D

**AABP RESEARCH SUMMARIES**

**BEEF SESSION**
- Cattle Production Veterinarian Hall of Fame Beef Presentation
- Cattle Vaccines: Bridging the Gap between Efficacy Testing and Efficacy, Safety Testing and Safety, Client Expectations and Biology – *Kelly Lechtenberg*

**AASRP SMALL RUMINANTS**
- Medicated Feeds and the VFD in Small Ruminants – *Tim Goldsmith*
- Enterotoxemia in Small Ruminants – *Joan Bowen*

**AASSRP RESEARCH SUMMARIES**

### SATURDAY, SEPTEMBER 14

**SATURDAY MORNING**

<table>
<thead>
<tr>
<th>CLINICAL FORUMS 2*</th>
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<tr>
<td>6 Successful Use of Antimicrobials – A Gateway to Applied Stewardship – <em>Nora Shrag</em></td>
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<td>7 Gateway to the Business Side of Running a Practice – <em>Carie Telgen</em></td>
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<td>8 Managing and Motivating Your Bovine Practice Team for Success – <em>Tye Perrett</em></td>
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<td>9 Techniques for Success in Beef Nutrition Consultation – <em>Mark Hilton</em></td>
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<td>10 Practical Parasite Control for Beef Cattle – <em>Jennifer Edmonds</em></td>
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*Clinical Forums 1 is Thursday morning*

**DAIRY SESSION**
- Successful Public Engagement: Be a Positive Voice for the Dairy Industry – *Kim Bremmer*

**BEEF SESSION**
- Meet and Greet: Facilitating Knowledge Transfer through Producer Meetings – *Michael Capel*
- Win Clients and Influence Management: Running Successful On-farm Trials – *Michael Capel*
- Tips, Tools and Lessons to Achieve Diagnostic Success – *Belinda Thompson*

**AABP RESEARCH SUMMARIES**

**STUDENTS/NEW GRADUATES**
- Arms-Free Ultrasound in Bovine Practice – *Erika Wierman*
- Navigating the Regulations of Regulatory Paperwork: Which Blanks Apply to Me? – *Glennon Mays*

**SATURDAY AFTERNOON**

**DAIRY SESSION**
- The What, Why and Physiologic Cost of Leaky Gut Syndrome – *Lance Baumgard*
- Learn the Lingo and Successfully Incorporate Nutrition into your Practice – *Dave Brennan*
- When Dairies do Beef – the Feed and Management Approach – *Stuart Hall*

**BEEF SESSION**
- Basics of Genetic Variation and the Use of Genomic Technologies in Cattle – *Jason Osterstock*
- Review of Commercially Available Genomic Technologies in Cattle – *Jason Osterstock*
- Genetic Predictions – Commercial Applications – *Randall Spare*
- Capturing Value through Genetic Testing – *Randall Spare*
- Genomics and the Beef Industry: Missing Links – *Matt Spangler*
Welcome Reception

Join your peers and colleagues for appetizers and mingling at the AABP welcome reception, courtesy of Boehringer Ingelheim.

Wednesday, September 11th
6:00 p.m. – 9:00 p.m.
America’s Center

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AABP Breakfast & Nutrigenomics
Thursday, September 12 | 6:30–7:45 am

Nutrigenomics to Enhance Immunity, Health, and Well-Being
Mario Vailati Riboni, PhD
Department of Animal Sciences, University of Illinois

OPEN TO ALL AABP ATTENDEES
Preregister for Breakfast (no charge) when you register for the Conference.

Sponsored by:

Annual Amstutz Scholarship Auction and Dinner

#1 SILENT AUCTION
Check out item descriptions and pictures and keep up your bidding in the Exhibit Hall from Thursday, September 12, at 8:00 am until 4:00 pm on Friday, September 13. Terrific auction items include veterinary products, time at vacation homes, clothes, art, tools and much more!

#2 LIVE AUCTION
Eat well and bid often at the Friday Night Dinner and Scholarship Auction from 6:00 to 9:00 pm. Successful bidders need to complete their purchases immediately after the auction.

Payment can be made by check, credit card or on the AABP app.
Items will be shipped to the winning bidder by the item donor. Please make arrangements after the meeting.

Sponsored by:
EVENTS NOT TO MISS

COME RUN THE
7TH ANNUAL AABP STAMPEDE

SEPT. 14 • 7:30 A.M. • REGISTRATION: $40 • ST. LOUIS, MO

100% OF PROCEEDS GO TO THE AMSTUTZ SCHOLARSHIP FUND

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BE OUR GUEST FOR THE
The AABP Gateway
GALA

ENJOY AN EVENING WITH YOUR COLLEAGUES AFTER THE CONFERENCE.

Saturday, September 14
6:00 PM – 9:00 PM • America’s Center

Please be our guest at this evening dinner. There is no charge for this event. Please reserve in advance when registering for the conference online at https://aabp.org.

The Science of Healthier Animals.®
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The 52nd Annual Conference of the American Association of Bovine Practitioners
VISIT THE EXHIBITS!

ST. LOUIS, AMERICA’S CENTER
THURSDAY 8:00 AM – 6:30 PM, FRIDAY 8:00 AM – 5:00 PM

In addition to browsing the exhibits, join us in the Exhibit Hall for the Wine & Cheese Reception, milk/coffee breaks, Thursday and Friday lunch, Quiz Bowl and the Amstutz Scholarship Silent Auction! Find out more about 2019 exhibitors under the Conference tab at https://aabp.org.

Addison Biological Laboratory, Inc.
Advanced Animal Diagnostics, Inc.
Allflex US
Alta Genetics - SCCL
Amelicor
American Association of Bovine Practitioners
American Embryo Transfer Association
Animax Veterinary Technology
Armenta LTD
AVMA PLIT
Balchem
Bayer
BEEF and Feedstuffs
Bio-Vet Inc.
Boehringer Ingelheim
Bovine Veterinarian
Bowie International LLC
Cambridge Technologies
Central Life Sciences
Christian Veterinary Mission
Colorado Serum Company
Covetrus
Dairy Tech Inc
Diamond V
DRMS
E.I. Medical Imaging
Elanco Animal Health
Elsevier
ENDOVAC Animal Health
Epitopix - Vaxxinova
Food Animal Residue
Avoidance Databank
Genova Labs
GlobalVetLINK
Hoard’s Dairyman
Hoof Trimmers Association Inc.
Hover Chute
Huvepharma
IDEXX
ImmuCell
IMV imaging
Jorgensen Laboratories LLC
Kansas State Veterinary Diagnostic Lab
Kunafin
La Belle, Inc.
Lane Manufacturing Inc.
Merck Animal Health
Midwest Vet Supply
Minitube USA, Inc.
MISCO Refractometer
Multimin USA
MWI Animal Health
National Cattlemen’s Beef Association
National Dairy FARM Program
Neogen
No-Bull Enterprises
Norbrook
Nova-Tech, Inc.
Omniv Animal Health
Partnar Animal Health
Pharmgate Animal Health
Phibro Animal Health
Pneu Dart Inc.
Portacheck
PowerFloat Inc.
Professional Embryo Transfer Supply, Inc.
Progressive Publishing
Purina Animal Nutrition
ReproScan Ultrasounds
Society for Theriogenology
Stone Manufacturing and Supply Co.
Stuart Products, Inc.
Sypharma Pty Ltd
TechMix Global
Texas A&M Veterinary Medical Diagnostic Laboratory
The Magic Zoo
Trans Ova Genetics, LC
Udder Health Systems Inc.
Udder Tech, Inc.
University of Nebraska-Lincoln
Upsi-Daisy Cow Lifter
Valley Agricultural Software, Inc.
Van Beek Natural Science
VCPR.ORG
Veterinary Concepts
Vetoquinol
Vetstream Ltd
Vet Tec Ltd
Vetstream Ltd
Phibro Animal Health
Progressive Publishing
Purina Animal Nutrition
ReproScan Ultrasounds
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Valley Agricultural Software, Inc.
Van Beek Natural Science
VCPR.ORG
Veterinary Concepts
Vetoquinol
Vetstream Ltd
Zinpro Corporation
Zoetis

Special thanks to those exhibitors who generously support the Amstutz Scholarship Fund Silent and Live Auctions.
THE AABP WISHES TO EXPRESS GRATITUDE TO THE FOLLOWING COMPANIES FOR THEIR GENEROUS SUPPORT OF THE 52ND ANNUAL CONFERENCE.

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