Evolving Expectations

September 21-23, 2023

Milwaukee, Wisconsin
Wisconsin Center

AABP-AASRP Joint Sessions
Social Events
Research Summaries
Trade Show
MISSION STATEMENT
The American Association of Bovine Practitioners is an international association of veterinarians serving society as leaders in cattle health, welfare, and productivity. We welcome and support any veterinarian or veterinary student, regardless of race, color, national origin, sex, religion, sexual orientation or any other demographic, to participate in all opportunities that our organization provides. As leaders in the cattle industry, we encourage all veterinarians with an interest in cattle to join us and participate in our organization.

HAVE QUESTIONS? NEED DIRECTIONS?
Stop by the AABP registration desk on the ground level of the Wisconsin Center.

AABP WELCOMES AASRP
Selected sessions at the 56th Annual Conference are presented by the American Association of Small Ruminant Practitioners.

CONFERENCE LOCATION
Wisconsin Center
400 W Wisconsin Ave
Milwaukee, WI 53203
414-908-6000
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# Registration Hours

*Wisconsin Center, First Floor*

- Tuesday, September 19 ............... 8:00 am - 5:00 pm
- Wednesday, September 20 .......... 7:00 am - 7:00 pm
- Thursday, September 21 .......... 7:00 am - 6:00 pm
- Friday, September 22 ............... 7:00 am - 6:00 pm
- Saturday, September 23 ........... 7:00 am - 11:00 am

# Exhibit Hall Hours

*Wisconsin Center, Third Floor*

- Thursday, September 21, 8:00 am – 6:30 pm
- Friday, September 22, 8:00 am – 5:00 pm
2023 Program Committee

Chair — Dr. Michael Capel
Beef Cow-Calf — Dr. Ray Stegeman
Beef Feedlot — Dr. Holt Tripp
Clinical Skills — Dr. Jess McArt
Dairy Sessions — Dr. Brandon Treichler
Preconference Seminars — Dr. Dave Sjeklocha
Practice Management — Dr. Lauren Mack
Practice Tips — Dr. Tera Barnhardt
Research Summaries — Dr. Whitney Knauer,
                Dr. Jared Bourek
Student Case Competition/Student Sessions —
                Dr. Tracy Potter
AASRP — Dr. Clare Scully

AABP Committee Meetings

You are welcome to join in on the discussions at a
variety of AABP committee meetings. Participate in
informal discussions on current topics and issues
facing bovine veterinarians with fellow AABP
members. Help guide AABP and the future of bovine
practice! Committee meetings will be held in the
Hilton or convention center (CC).

Thursday, September 22, 9:00 – 10:15 am
Amstutz – CC 201 E
Animal Welfare – Hilton Wright C
Beef Health Management – CC 202A
Cattle Youngstock – CC 203B
Diversity, Equity and Inclusion – Hilton Wright A
Genomics and Genetics – CC 202E
Lameness – CC 202C
Membership – Hilton Wright B
Mental Health – CC 203A
Milk Quality and Udder Health – CC 201C
Nutrition – CC 201A
Pharmaceuticals & Biologic Issues – CC 201B
Reproduction – CC 201D
Student Activities – CC 202B
Veterinary Practice Sustainability – CC 202D

1:00 – 3:00 pm Foundation Board of Directors
Meeting – Hilton Regency Ballroom
Although protesters are not expected, you may come across animal rights activists during this conference. Here are a few tips:

1. WEAR YOUR CONFERENCE BADGE AT ALL TIMES. Badge is required for all AABP events.
2. Do not engage protesters in conversation.
3. Refer activists or media to the AABP Headquarters in Ashland, Ohio, or to an AABP officer. Activists will often record engagement with conference attendees. Do not allow activists to goad you into anger, confrontation or making statements. Simply walk away.
4. Do not leave your badge anywhere or throw it away. We recommend taking your badge home with you.

There’s a QR CODE for That!

Find more detailed conference information using QR codes! Just snap a picture of a QR code on the many posters featuring them with your phone, and get the information you need.

For instance, if you’ve misplaced your Pocket Guide, find session information and room numbers on the AABP website by snapping a pic of this QR code.

You will find QR codes on posters and materials for auction items, how to use the Slido app for speaker questions, polls and feedback, the 2024 Recent Graduate Conference and more!
We Would Like To Thank the Sponsors of the 2023 56th AABP Annual Conference

**PREMIER**
Boehringer Ingelheim
Vetmedica, Inc.
Zoetis

**PLATINUM**
Diamond V
Endovac Animal Health

**GOLD**
Merck
Vaxxinova/Newport Laboratories
Virbac

**SILVER**
Elanco Animal Health
Hoard’s Dairyman

**BRONZE**
Arkion Life Sciences
Pneu-Dart
Udder Tech, Inc.
PRECONFERENCE SEMINARS
All Preconference Seminars
from 8:00 am – 5:00 pm

Seminar 1  Milk Quality: Tools to Take Home to Your Clients and Practice Tomorrow (Day One)
            Hilton Walker

Seminar 1  Milk Quality: Tools to Take Home to Your Clients and Practice Tomorrow (Day Two)
            Hilton Walker

Seminar 2  The Replacement Dairy Heifer from Birth to Calving (Day One)
            Hilton Mitchell

MOTHERS ROOM
at the Hilton in Usinger
Monday through Wednesday.

BADGES MUST BE WORN TO ATTEND ANY AABP EVENTS.
Daily Snapshot

**Tuesday**

**Seminar 1** Milk Quality: Tools to Take Home to Your Clients and Practice Tomorrow (Day Three)
*Convention Center Exhibit Hall*

**Seminar 2** The Replacement Dairy Heifer from Birth to Calving (Day Two)
*Hilton Mitchell*

**Seminar 6** Basic Sheep Nutrition (Day One)
*Hilton Wright A*

**Seminar 10** Using On-farm Data for Problem Solving in Cattle Practice (Day One)
*Hilton Walker*

**Wednesday**

**Seminar 2** The Replacement Dairy Heifer from Birth to Calving (Day Three)
*Hilton Mitchell*

**Seminar 4** Transition Cow Nutrition and Management
*Hilton Wright B*

**Seminar 5** Practice Applicable Beef Cow-Calf Nutrition
*Convention Center 201D*

**Seminar 6** Basic Sheep Nutrition (Day Two)
*Hilton Wright A*

**Seminar 7** Kansas State Antibiotic Stewardship Certificate (ASCert)
*Convention Center 202B*

**Seminar 8** Field Anesthesia and Pain Management
*Convention Center 202D*

**Seminar 9** Taking Steps to Prevent Lameness in Dairy Cattle
*Convention Center 203D*

**MOTHERS ROOM** at the Hilton in Usinger Monday through Wednesday.
Seminar 10  Using On-farm Data for Problem Solving in Cattle Practice  
(Day Two)  
Hilton Walker

Seminar 11  Success is Like Electricity – It Flows Through Good Connections  
Convention Center 203B

Seminar 20  Food Animal Educators Symposium (1:00 – 5:00 pm)  
Hilton Wright C

OTHER WEDNESDAY EVENTS

8:00 am – 5:00 pm  
AABP Board of Directors  
Hilton Regency

6:00 – 9:00 pm  
AABP Welcome Reception  
Convention Center Ballroom CD  
Sponsored by Boehringer Ingelheim, page 48
THURSDAY SCIENTIFIC SESSIONS

Clinical Forums
7:00 – 9:00 am (ticket required)
All Clinical Forums will be held at the Hilton. Buffet breakfast begins at 6:45 AM on the 4th floor of the Hilton

1 - Systems Thinking for Herd Health
   Smith/ Wright B
2 - Survival Kit for Small Ruminant Work
   Jones Cook/ Wright C
3 - Sensor-based Data for Repro in Dairy
   LeBlanc/ MacArthur
4 - Beef Cattle Implant Selection and Protocols
   Behlke/ Wright A
5 - Mastitis Treatment Strategies
   Royster/ Walker
6 - Milk Quality Programs on Robotic Dairies
   Treichler/ Mitchell
7 - Courageous Conversations
   Cottman/ Pabst

8:00 – 10:00 am: AASRP, page 20
   Convention Center 102

10:00 – 10:30 am: Milk/Coffee Break
   Exhibit Hall

10:30 am – 12:15 pm: Keynote Address
   and Vice President Candidate Introductions
   Convention Center Ballroom AB

1:30 – 5:30 pm
   • Clinical Skills, pages 23-24 – CC Ballroom AB
   • Joint Beef/ Dairy, page 22 – CC 102
   • Practice Management, page 30 – CC 101
   • Student Case Presentations, pages 32-33 – CC 103
   • AABP Foundation Research Summary Presentations, page 34 – CC 103

3:30 – 4:00 pm: Milk/Coffee Break
   Exhibit Hall

5:45 – 6:45 pm: Practice Tips, page 25
   Convention Center Ballroom AB
OTHER THURSDAY EVENTS

6:30 – 7:45 am
• Breakfast: Why Productive Life Matters, page 49
  Convention Center Ballroom D
  Sponsored by Diamond V
• Committee Chairs Breakfast
  Hilton Miller

7:30 am
Media Breakfast
  Hilton Regency Ballroom

8:00 am – 6:30 pm
Exhibit Hall Open
  Auction Item Posters on Display
  Research Summary Posters and
  Student Posters on Display

8:00 am – 6:45 pm
Childcare Room – Convention Center 203D
(An unattended room for children and caregivers only.)

9:00 – 10:15 am
AABP Committee Meetings, page 4

12:15 – 1:30 pm
Lunch in the Exhibit Hall
(Use your Thursday Bovine Bucks tickets
  behind your name badge.)

1:00 – 3:30 pm
AABP Foundation Board of Directors
  Hilton Regency Ballroom

1:30 – 3:30 pm
AABP Job Fair (Must be registered for the
  Job Fair to attend.)
  Convention Center 202C

7:00 – 9:00 pm
AASRP Open Mic Night – Hilton Wright AB

7:00 – 10:00 pm
Student Reception – 3rd Street Market Hall
  Sponsored by Endovac Animal Health
FRIDAY SCIENTIFIC SESSIONS

8:00 am – 12:15 pm
• Clinical Skills
  Convention Center Ballroom AB
• Practice Management
  Convention Center 101
• Graduate Student Competition – CC 103
• AASRP – Convention Center 102
• Seminar 19 – Student Lameness (must be registered)
  Exhibit Hall

11:45 am – 6:00 pm: Research Summaries
 Convention Center 103

10:00 – 10:45 am: Milk/Coffee Break
 Exhibit Hall
 Sponsored by Virbac

10:45 am – 12:15 pm: Hot Topics
 Convention Center Ballroom AB

1:45 – 6:00 pm
• AASRP – Convention Center 101
• Beef – Convention Center 102
• Dairy – Convention Center Ballroom AB
• Seminar 13 – Calf Care & QA
  Instructor Training (must be registered)
  Convention Center 203B

3:45 – 4:15 pm: Milk/Coffee Break
 Exhibit Hall
 Sponsored by Virbac

13TH ANNUAL AABP STUDENT QUIZ BOWL

Friday, September 22
Sponsored by Vaxxinova/Newport Laboratories
OTHER FRIDAY EVENTS

6:30 – 7:45 am
Breakfast - Rethinking Clinical Mastitis Therapy, page 51
Convention Center Ballroom CD
Sponsored by Zoetis

8:00 am – 6:00 pm
Childcare Room
Convention Center 203D
(An unattended room for children and caregivers only.)

8:00 am – 5:00 pm
Exhibit Hall Open
Auction Item Posters on Display
(Silent Auction closes at 4:00 pm)
Research Summary Posters and Student Posters on Display

8:00 am
AABP Board of Directors
Hilton Regency

12:15 – 1:45 pm
• Lunch in the Exhibit Hall (Use your Friday Bovine Bucks tickets behind your name badge.)
• Quiz Bowl Finals in the Exhibit Hall,
  Sponsored by Vaxxinova/Newport Laboratories
• Student Case Presentation Winner presents in the Exhibit Hall
• (12:15 - 1:15pm) – Meet the Research Summary and Student Poster Presenters

6:00 – 9:00 pm
Amstutz Scholarship Live Auction, Scholarship Presentations and Dinner, page 52
Convention Center Ballroom CD
(Bring your admission ticket located in your registration pack.)
Dinner sponsored by Zoetis

8:30 pm – 12:00 am
CABV/ACVB Social, page 56
Hilton Empire Ballroom
Sponsored by Vetoquinol
SATURDAY SCIENTIFIC SESSIONS

8:00 – 11:30 am
• Beef, pages 26-27
  Convention Center 102
• Dairy, pages 28-29
  Convention Center Ballroom AB
• Students/ New Graduates, page 31
  Convention Center 101

8:00 am – 6:00 pm: Research Summaries
  Convention Center 103

10:00 – 10:30 am: Milk/Coffee Break
  Outside session rooms

2:00 – 6:00 pm
• Beef, page 27
  Convention Center 102
• Dairy, page 28-29
  Convention Center Ballroom AB
• Students/ New Graduates, page 31
  Convention Center 101

3:45 – 4:15 pm: Milk/Coffee Break
  Outside session rooms
OTHER SATURDAY EVENTS

7:00 am
5K Stampede Fun Run,
Juneau Park, page 53
Buses load from east side of convention
center on Vel R. Phillips Ave. (6:00 - 6:30 am)
Sponsored by Boehringer Ingelheim

6:30 – 7:45 am
Christian Veterinary Mission Breakfast
(Ticket required.)
Convention Center 202C

8:00 am – 6:00 pm
Childcare Room
Convention Center 203D
(An unattended room for children and
caregivers only.)

11:30 am – 2:00 pm
AABP Annual Business Awards Luncheon –
all attendees are welcome! Page 53
Convention Center Ballroom CD
PRACTICE TIPS

Join other AABP attendees for an hour of scintillating and informative practice tips!

Thursday, Sept. 21 from 5:45 – 6:45 pm
Convention Center Ballroom AB

Small Ruminant Fluid Lines
Clare Scully

Louisiana Life Lessons: Dealing with the Alligators – Literal and Figurative – in Disasters
Christine Navarre

Boosting Value of Student Externships
Mary Cody

The Cutting Edge: Knife Selection, Sharpening and Maintenance in Practice
Justin Kieffer

Organization & Communication in A Crazy World
Chelsea Bland Smith
Buy Lunch in the exhibit hall using your BOVINE BUCKS

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 in your name badge holder and present to the cashier at lunch.

BOVINE BUCKS LUNCH
Valid for 1 Meal & 1 Drink
THURSDAY ONLY

BOVINE BUCKS LUNCH
Valid for 1 Meal & 1 Drink
FRIDAY ONLY

Bovine Bucks are your courtesy of AABP.
AABP Conferences ARE A GREAT WAY TO...

• Obtain RACE-approved CE
• Visit with peers
• Network with colleagues
• Make new friends

Veterinarians, AABP technician members and AABP-member students are welcome to attend these GREAT annual events!

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<th>Location</th>
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<td>2024</td>
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<td>Columbus, Ohio</td>
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American Association of Bovine Practitioners

SESSION GUIDE

- AASRP Session
- Keynote
- Hot Topics
- Joint Beef/Dairy Session
- Clinical Skills
- Practice Tips
- Beef Session
- Dairy Session
- Practice Management Session
- Student Session
- Student Case Presentations
- Research Summaries
THURSDAY, SEPTEMBER 21
Convention Center 102

8:00 – 9:00 am
A Guide to Antimicrobial Options for Common Small Ruminant Diseases
Michelle Buckley

9:00 – 10:00 am
Creating a Productive Relationship with Small-scale Farmers
Michelle Buckley

FRIDAY, SEPTEMBER 22
Convention Center 102

8:00 – 9:00 am
Practical Small Ruminant Nutrition: Applied Nutrition for Veterinarians
Andrea Mongini

9:00 – 10:00 am
A New Old Parasite – Liver Fluke
Adriano Vatta

10:45 – 11:30 am
Uterine Parasites: A Clinician’s Guide to Pregnancy Toxemia
Andrea Lear

11:30 am – 12:15 pm
A Beginner’s Guide to LAP AI
Clare Scully

Convention Center 101 (room change)

1:45 – 2:45 pm
Small Ruminant Quality Assurance (SRQA) – Considerations and Practices
Michael Pesato

2:45 – 3:45 pm
A Practical Approach to Neuro Disease
Meredyth Jones

4:15 – 6:00 pm
AASRP Research Summaries
THURSDAY, SEPTEMBER 21
Convention Center Ballroom AB

10:30 am – 12:00 pm
The Journey of Innovation
Sara Frasca

12:00 – 12:15 pm
AABP 2024 Vice President Candidate Introductions
W. Mark Hilton  Brandon Treichler

FRIDAY, SEPTEMBER 21
Convention Center Ballroom AB

10:45 – 11:30 am
Results of the AABP Salary Survey
Sarah Wagner

11:30 am – 12:15 pm
A Partnership For Success: Tips For Retaining Associates and Tips on Getting the Most Out of Your First Year in Practice
Amy Bartholomew
THURSDAY, SEPTEMBER 21
Convention Center 102

1:30 – 2:30 pm  
Beef’s Intersection with ESG Metrics  
Sara Place

2:30 – 3:30 pm  
The Veterinarian’s Role in Reducing GHB Emissions from Beef and Dairy Production  
Colin Beal

4:00 – 5:00 pm  
Beef on Dairy – Vet’s Role, Trends  
Juan Moreno

4:45 – 5:30 pm  
Beef-on-Dairy Calves  
Juan Moreno
THURSDAY, SEPTEMBER 21
Convention Center Ballroom AB

1:30 – 2:00 pm
Hoof Trimming: The Steps to Success
Gerard Cramer

2:00 – 2:30 pm
What, Where and for How Long: Catheter Placement & Maintenance in Dehydrated Calves
Andrea Lear

2:30 – 3:00 pm
The Do’s and Don’ts of Bovine Euthanasia
John Gilliam

3:00 – 3:30 pm
Practical Pain Mitigation for Castrations – Effective and Efficient Relief
Maddison Tyrrel

4:00 – 4:30 pm
Getting Ropes and Other Simple Equipment to do Your Bidding in a Practice Setting
Keith Sterner

4:30 – 5:00 pm
Heifer Spay: A Practical Approach
Michael Steine

5:00 – 5:30 pm
FLASC – Fast Localized Abdominal Scan for Cattle
Lisa Willis

Clinical Skills continued on next page.
Clinical Skills (cont’d)

FRIDAY, SEPTEMBER 22
Convention Center Ballroom AB

8:00 – 8:30 am
Bovine Superovulation and Embryo Transfer – How to Make Babies!
Joel Anderson

8:30 – 9:00 am
To the Point – The Basics of Bovine Acupuncture
Aurora Villarroel

9:00 – 9:30 am
It’s Only Skin Deep: How to Diagnose & Treat Bovine Dermatopathies
Julia Miller

9:30 – 10:00 am
How to Take the Edge Off: Anesthetics for Bovine Practice
Michael Kleinhenz
THURSDAY, SEPTEMBER 21
Convention Center Ballroom AB

5:45 – 6:45 pm
• Small Ruminant Fluid Lines
  Clare Scully
• Louisiana Life Lessons: Dealing with the Alligators – Literal and Figurative – in Disasters
  Christine Navarre
• Boosting Value of Student Externships
  Mary Cody
• On The Cutting Edge: Knife Selection, Sharpening and Maintenance in Practice
  Justin Kieffer
• Organization & Communication in a Crazy World
  Chelsea Bland Smith
FRIDAY, SEPTEMBER 22
Convention Center 102

1:45 – 2:45 pm
Wellness in Cattle Practice: Better Managing Success (Health) in Animals, Client Systems and One’s Self Along the Continuum Extending Beyond the Dichotomous Absence of Failure (Disease) Outcomes
Robin Falkner

2:45 – 3:45 pm
Animal Handling Effects on Health and Performance
Tom Noffsinger

4:15 – 5:15 pm
Cow-calf Vaccinations – When it Comes to Immunology What Makes Sense and What Doesn’t
Chris Chase

5:15 – 6:00 pm
Effective Utilization of Vaccination to Protect against Viral Reproductive Pathogens
Paul Walz
SATURDAY, SEPTEMBER 23
Convention Center 102

8:00 – 9:00 am
Genetic Improvements in a Sustainable Food System
Banks Baker

9:00 – 10:00 am
Use of Genomic Tools to Improve Production Efficiency, Health Resilience and Carbon Footprint of Beef Production
John Basarab

10:30 – 11:30 am
Beef on Dairy Cattle – Industry Benefits and Opportunities
Nick Hardcastle

2:00 – 3:00 pm
Cow-calf Chuteside Data Collection in the Field and Its Role in Cow-calf Consultation
J.D. Folsom

3:00 – 3:45 pm
Bloodborne Pathogens in Beef Herds – A Kansas Practitioner’s Perspective
Nora Schrag

4:15 – 5:15 pm
Prescription Platform and Autogenous Vaccines – What are They and What is the Difference?
Chris Chase

5:15 – 6:00 pm
Calf Care & Quality Assurance Program – Best Management Guidelines for the Calf-raising Sector
Julia Herman
FRIDAY, SEPTEMBER 22
Convention Center Ballroom AB

1:45 – 2:45 pm
The Evolution of Dairy Cattle Welfare
Nigel Cook

2:45 – 3:45 pm
The Evolution of the FARM Animal Care Program: Trends, Priority Issues and Opportunities for Veterinarians
Steven Roche

4:15 – 5:00 pm
The Evolution of Lameness on North American Dairies: Addressing Current Industry Challenges and Exploring New and Existing Approaches to Reduce Lameness
Elise Shepley

5:00 – 6:00 pm
The Evolution of Down Cow Management
Charlotte Winder
SATURDAY, SEPTEMBER 23
Convention Center Ballroom AB

8:00 – 9:00 am
Changing Industries and Shifting Gears
Carie Telgen

9:00 – 10:00 am
The Evolution of Calf Nutrition
James Drackley

10:30 – 11:30 am
The Evolution of Sensor-based Technologies in Dairy Production
Stephen LeBlanc

2:00 – 3:00 pm
Leading from the Bottom Up: Improving Leadership on your Farms and In Your Practice
Tera Rooney Barnhardt

3:00 – 3:45 pm
Building Consulting into Dairy Practice
Robert Ceglowski

4:15 – 5:15 pm
Organizing Milk Harvest: A Producer Perspective on Infrastructure and Human Resources
William Wavrin

5:15 – 6:00 pm
Future Vet: Current Trends in Demand for Veterinary Services on Dairy Farms
William Wavrin
THURSDAY, SEPTEMBER 21
Convention Center 101

1:30 – 3:30 pm
Cultural Competencies in the Workplace – How to Recruit and Retain a Diverse Workforce
Maurice Cottman

4:00 – 4:45 pm
Creating an Onboarding Plan for the Elusive New Associate
Shannon Nielson

4:45 – 5:30 pm
The True Costs of Losing Staff and How to Avoid Them
Michael Dicks

FRIDAY, SEPTEMBER 22
Convention Center 101

8:00 – 10:00 am
Recognizing Mental Health Challenges in Practice and What to do Next
Josh Tanguay

10:45 am – 11:30 am
Clear Your Plate – What Practice Owners Can Outsource
Christine Staten

11:30 am – 12:15 pm
HR Bootcamp – Building Your Dream Team
Christine Staten
SAVTURDAY, SEPTEMBER 23
Convention Center 101

8:00 – 9:00 am
Evaluating the Finances of a Job Offer
  Jorge Colón

9:00 – 10:00 am
Marketing Yourself as a New Grad:
  e-portfolios, Cover Letters and Resumes
  Jorge Colón

10:30 – 11:30 am
Basic Dairy and Beef Nutrition Principles for
  the New Graduate
  Alexander Navarro

2:00 – 3:00 pm
Practical Pharmacology for the New Grad
  Sarah Wagner

3:00 – 3:45 pm
Externships: How to Get the Most out of
  Your Externship
  Philippa Gibbons

4:15 – 5:15 pm
A Toolbox for Transitioning from Student to
  Veterinarian: Setting Yourself up for Success and
  Reframing Failure in Your First Year of Practice
  Dayna Locitzer

5:15 – 6:00 pm
Preparing Your Mind and Body for
  Large Animal Practice
  Emily Zur Linden
Student AABP members enrolled in AVMA-accredited veterinary colleges will compete by presenting interesting cases treated or research projects completed. There will be time for the audience to ask questions of the presenters and answers to questions will be considered in the judging/scoring of the presentations. Contestants are judged on the quality of their investigation or research and quality of the presentation. In 2023, $1,500 will be awarded for the first-place clinical and research presentations, and $750 for the second-place clinical and research presentations. Presenters are awarded a $500 travel stipend to attend the conference in person.

1:30 – 1:45 pm
Relationship between passive immune status on calf health and performance in embryo transfer calves raised in a confined cow-calf operation
Alexis Stadtlander, Iowa State University

1:45 – 2:00 pm
Effect of outside temperature during the first 10 days of life on the development of ultrasonographic pneumonia at 10-28 days in Holstein calves
Kailey Wichman, University of Wisconsin

2:00 – 2:15 pm
Does knowledge of blood calcium at 2 DIM impact decisions of calcium supplementation?
Hannah McCray, Cornell University

2:15 – 2:30 pm
Investigating the impact of clinical intramammary infection timing relative to breeding on conception in dairy cattle
Tanya Weber, Washington State University

2:30 – 2:45 pm
You did what?
Lindsey Tarby, Texas A&M University
2:45 – 3:00 pm
Sperm granuloma in a bull
Dylan Bostick, Texas Tech University

3:00 – 3:15 pm
It's not Anaplasmosis!
Hailey Drerup, Texas A&M University

3:15 – 3:30 pm
A randomized, controlled trial examining the effects of quarter-level somatic cell count and culture-based results against blanket dry-cow therapy on early-lactation production outcomes
Kelsey D’Amico, Purdue University

4:00 – 4:15 pm
Evaluation of changes in the prevalence and distribution of Anaplasma marginale in Iowa beef cattle operations (2017-2021)
McKenna Brinning-Henningsen, Iowa State University

4:15 – 4:30 pm
Colic and pear-shaped abdominal distention in a 2-year-old Angus embryo donor heifer
Sierra Shelit, Kansas State University
AABP FOUNDATION-SUPPORTED

THURSDAY, SEPTEMBER 21
Convention Center 103

4:30 – 4:45 pm
Side of chute does not affect the sensitivity of *Tritrichomonas foetus* sample collection in bulls when using dominant hand for collection
Jennifer Koziol

4:45 – 5:00 pm
Determination for the need for analgesics in day old calves following caustic paste disbudding
Patrick Gorden

5:00 – 5:15 pm
Effects of treatment with propylene glycol and cyanocobalamin on disease, milk production, and reproductive outcomes of dairy cows diagnosed with hyperketonemia and hypoglycemia
Andrew Hubner

GRADUATE STUDENT COMPETITION

FRIDAY, SEPTEMBER 22
Convention Center 103

8:00 – 8:15 am
Prevalence and risk factors for *Anaplasma marginale* seropositivity in cattle in California
Shih-Yu Chen

8:15 – 8:30 am
Determining frequency of common pulmonary gross and histopathological findings in feedyard fatalities
Paige Schmidt

8:30 – 8:45 am
Characterizing the influence of various antimicrobials used for metaphylaxis against bovine respiratory disease on host transcriptome responses
Rebecca Bigelow

Graduate Student Competition continued on next page.
8:45 – 9:00 am
Bovine respiratory disease (BRD) in post-weaning calves with different prevention strategies and the impact on performance and health status
Marina Ferreira

9:00 – 9:15 am
Transcriptome assessment of healthy high-risk stocker cattle defines mechanisms of inflammatory regulation induced by tulathromycin metaphylaxis
Bradly Ramirez

9:15 – 9:30 am
Association of liver abscess with demographic factors, comorbidities and gastrointestinal histologic lesions in feedlot mortalities
Rachel Brown

9:30 – 9:45 am
Are there opportunities to strengthen animal welfare through improved management of feedlot chronic pens?
Emiline Sundman

9:45 – 10:00 am
Barriers to recording calf health data on dairy farms in Ontario, Canada
Kristen Edwards

10:45 – 11:00 am
Comparison of Salmonella Dublin SRP vaccination programs on the development of immunity in calves
Cody Sacquitne

11:00 – 11:15 am
Comparison of bolt penetration depth by low-cost penetrating captive-bolt devices used for cattle euthanasia on the farm
Stephen Frazer
GRADUATE STUDENT COMPETITION, con't...

11:15 – 11:30 am  
Predicting calcium status in early lactation multiparous Holsteins using milk constituent analysis  
Jackson Seminara

11:30 – 11:45 am  
Association between rumination behavior, hyperketonemia and milk production in early lactation  
Cainan Florentino

RESEARCH SUMMARIES

FRIDAY, SEPTEMBER 22
Convention Center 103

11:45 am – 12:00 pm  
Tradeoffs between herd turnover rate and milk production for marginal cash flow and enteric methane intensity  
Daryl Nydam

12:00 – 12:15 pm  
Relationship between actual vs. targeted weight at first calving and milk production in first and second lactation  
Michael Overton

1:45 – 2:00 pm  
Associations between bovine leukemia virus status and fertility in Kansas beef herds: a cross-sectional study  
Bob Larson

2:00 – 2:15 pm  
Immune response and protection of neonatal, colostrum-fed calves with modified live, intranasal, tri-valent vaccine using an experimental challenge with virulent Bovine Respiratory Syncytial Virus  
Chris Chase
2:15 – 2:30 pm  
A 2x2 factorial randomized controlled trial of a commercial *M. bovis* (CMB) vaccine and a conditionally licensed *M. bovoculi* vaccine (CLMB) to prevent IBK  
Annette O'Connor

2:30 – 2:45 pm  
Leukocyte dynamics in vaccinated and unvaccinated animals following dual challenge with Bovine Viral Diarrhea Virus-*Mannheimia haemolytica* model to compare vaccine efficacy in calves  
Chris Chase

2:45 – 3:00 pm  
Digital dermatitis affects locomotion and gait traits of beef cattle in feedlots  
Karin Orsel

3:00 – 3:15 pm  
Retrospective evaluation of the causes and distribution of lameness in beef and dairy cattle evaluated by ambulatory and in house clinical services at a North American veterinary teaching hospital  
Brent Credille

3:15 – 3:30 pm  
Descriptive evaluation of a camera-based dairy cattle lameness detection technology  
Drew Swartz

3:30 – 3:45 pm  
The effect of a first occurrence of digital dermatitis in early lactation on risk of culling and time-to-pregnancy in lactating dairy cows  
Elise Shepley

4:15 – 4:30 pm  
Predicting dyscalcemia at 4 days in milk using activity and rumination data in multiparous Holstein cows  
Jackson Seminara
Research Summaries

4:45 – 5:00 pm
Using infrared thermography to detect teat tissue changes after machine milking in dairy cows
Lauren Harper

5:00 – 5:15 pm
Effects of bovine casein hydrolysate as a dry cow therapy on prevention and cure of bovine intramammary infection, milk production and somatic cell count in the subsequent lactation
Thomas Overbay

5:15 – 5:30 pm
Integrated transcriptome and multi-tissue mineral analyses of healthy stocker cattle fed complexed or inorganic trace mineral supplement
Matthew Scott

5:30 – 5:45 pm
Trace mineral testing in Ontario cow-calf operations
Jessica Gordon

5:45 – 6:00 pm
Effects of injectable trace minerals on the inflammatory cytokines’ response to vaccination in dairy calves
Ameer Megahed
SATURDAY, SEPTEMBER 23
Convention Center 103

8:00 – 8:15 am
The effects of a non-steroidal anti-inflammatory drug on behavior and physiological parameters of beef cows and calves assisted at calving
Jennifer Pearson

8:15 – 8:30 am
Cow and calf-level factors associated with nursing behaviours in beef cattle during the 24-hours following an assisted calving
Kathryn McLellan

8:30 – 8:45 pm
Machine learning models evaluate embryo morphokinetics to detect subclinical signs of heat stress in embryos produced by multiple ovulation embryo transfer
Cameron Hayden

8:45 – 9:00 am
Analysis of short videos of bovine embryos can detect presence of cryodamage
Russell Killingsworth

9:00 – 9:15 am
Evaluation of a needle-free injection system for administration of cloprostenol for luteolysis in lactating dairy cows
Alyssa Leslie

9:15 – 9:30 am
Use of image processing techniques can indicate bovine embryo stress and response to temperature changes in real-time
Cara Wells

9:30 – 9:45 am
Multi-drug resistant Salmonella Dublin cultured from cryopreserved Holstein semen
Chelsea Holschbach
9:45 – 10:00 am
Reproductive performance of Jersey heifers submitted for first insemination based on age vs. body weight– A randomized controlled trial
Rita Couto Serrenho

10:30 – 10:45 am
Toward a better understanding of upper respiratory tract bacterial colonization in neonatal beef calves
Consuelo Sowers

10:45 – 11:00 am
Effect of metaphylaxis on the temporal dynamics of Mannheimia haemolytica, Mycoplasma bovis, Histophilus somni, and Pasteurella multocida in the upper respiratory tract of low-risk cattle
Molly McClurg

11:00 – 11:15 am
Evaluation of the treatment efficacy of generic enrofloxacin compared to pioneer for first treatment of naturally occurring bovine respiratory disease in a commercial feedlot
Miles Theurer

11:15 – 11:30 am
Effects of respiratory disease control using generic vs pioneer tulathromycin in high-risk cattle on health, performance, and carcass characteristics
Shane Terrell

2:00 – 2:15 pm
An epidemiological investigation into Mycoplasma bovis infection in North American Bison (Bison bison): a case-control survey
Kelsey Martin

2:15 – 2:30 pm
Frequency of concurrent lesions in feedlot mortalities at necropsy
Maddie Mancke
2:30 – 2:45 pm
Association between heart measurements and the prevalence of heart lesions at necropsy in feedlot cattle
Katie Long

2:45 – 3:00 pm
Factors associated with lactation in non-pregnant feedlot heifer mortalities
Laura Carpenter

3:00 – 3:15 pm
Epidemiological factors associated with gross diagnosis of lung pathologies in feedlot mortalities
Eduarda Bortoluzzi

3:15 – 3:30 pm
The impact of commingling preconditioned calves on mortality, morbidity, and performance in a feedlot
Karin Orsel

3:30 – 3:45 pm
Predictive genome-wide association and economic analyses of pooled DNA in a commercial feedlot setting
Haleigh Prosser

4:15 – 4:30 pm
Validation of a poll shot captive bolt as a single step method of euthanasia of cattle
Grant Dewell

4:30 – 4:45 pm
Does a liposomal bupivacaine suspension (Nocita®) provide extended pain mitigation when disbudding dairy calves?
Rebecca Parsons
Research Summaries

4:45 – 5:00 pm
Hematologic and biochemical changes in caprine whole blood stored in CPDA-1 for 28 days
Hannah Neill

5:00 – 5:15 pm
Social in pre- and post-weaned beef calves
Rebecca Parsons

5:15 – 5:30 pm
Agreement of antimicrobial susceptibility testing of Pasteurella multocida and Mannheimia haemolytica found in pre-weaned dairy calves with bovine respiratory disease
Brent Credille

5:30 – 5:45 pm
Comparison of two methods for collecting antimicrobial usage in large dairy farms in Ohio and California
Rafael Portillo-Gonzalez

AASRP RESEARCH SUMMARIES
FRIDAY, SEPTEMBER 22
Convention Center 101

4:15 – 4:30 pm
Hematologic and biochemical changes in caprine whole blood stored in CPDA-1 for 28 days
Hannah Neill

4:30 – 4:45 pm
Mycoplasma ovipneumoniae in farmed White-tailed deer
Elizabeth Elsmo

4:45 – 5:00 pm
Antimicrobial resistance and mastitis classification of pathogens in small ruminant mastitis
Katherine Choo
5:00 – 5:15 pm
Comparison of firocoxib and meloxicam for pain mitigation in goats undergoing surgical castration
Mikaela Weeder

5:15 – 5:30 pm
Pharmacokinetics of oral phenazopyridine in goats with obstructive urolithiasis
Siena Mitman

5:30 – 5:45 pm
Pharmacokinetics of two dry-cow intramammary antimicrobials in dairy goats
Michelle Buckley

5:45 – 6:00 pm
Milk residue depletion of two dry-cow intramammary antimicrobials in dairy goats
Michelle Buckley
Innovation Expert Sara Frasca presents “The Journey of Innovation” keynote

10:30 am – 12:00 pm
Convention Center Ballroom AB

Keynote speaker Sara Frasca, an expert on innovation and the power of human creativity, is known for her high energy, dynamic and engaging presentations, and will present “The Journey of Innovation”. Honing her skills in senior leadership roles in both corporate America and the world of startups, Sara now serves as Chief Executive Officer for Point Northeast, a global business coaching firm. She helps leading organizations cultivate human imagination, build a culture of accountability, and solve complex problems to drive business growth.

AABP Vice President Candidate Introductions
12:00 – 12:15 pm

Following the keynote, get acquainted with your AABP Vice President candidates, Dr. Mark Hilton and Dr. Brandon Treichler as they tell you a little about themselves.

Vice president duties will commence at the end of the AABP Business Luncheon at the 2024 57th AABP Annual Conference in Columbus, Ohio.

Dr. Mark Hilton
Dr. Brandon Treichler
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:**

- Antimicrobial options for small ruminants
- Creative a productive relationship with small-scale farmers
- Practical small ruminant nutrition
- Liver flukes
- Pregnancy toxemia
- LAP AI
- Small Ruminant Quality Assurance
- Approaches to neuro disease
- AASRP Research Summaries

**PRACTICE MANAGEMENT SESSIONS**

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

- Cultural competencies – recruiting and retaining diversity
- Creating an onboarding plan for new associates
- True costs of losing staff and how to avoid them
- Recognizing mental health challenges in practice
- What practice owners can outsource
- HR boot camp – building your dream team
Don’t Miss the Student Case Competition!

Thursday, September 21
Convention Center

Support your future colleagues as they present their cases at the conference! And maybe learn a thing or two! Ten veterinary students from eight different schools will present their cases to AABP attendees.

The winner of the competition will present their case during Friday’s lunch in the Exhibit Hall. See pages 32-33 for the lineup and times.

CASES:

- Relationship between passive immune status on calf health and performance in embryo transfer calves raised in a confined cow-calf operation
- Effect of outside temperature during the first 10 days of life on the development of ultrasonographic pneumonia at 10-28 days in Holstein calves
- Does knowledge of blood calcium at 2 DIM impact decisions of calcium supplementation?
- Investigating the impact of clinical intramammary infection timing relative to breeding on conception in dairy cattle
- You did what?
- Sperm granuloma in a bull
- It’s not Anaplasmosis!
- A randomized, controlled trial examining the effects of quarter-level somatic cell count and culture-based results against blanket dry-cow therapy on early-lactation production outcomes
- Evaluation of changes in the prevalence and distribution of *Anaplasma marginale* in Iowa beef cattle operations (2017-2021)
- Colic and pear-shaped abdominal distention in a 2-year-old Angus embryo donor heifer
Stop over to the AABP Chuteside Chats at break or lunch times in the Exhibit Hall to get some in-depth information from our exhibiting partners!

**CHUTESIDE CHATS SCHEDULE**

**Thursday, Sept. 21**

10:10 – 10:30 am
Multimin USA – Liver biopsy, value-added procedure

12:30 – 12:50 pm
Protekta – The role of dietary phosphorous in hypocalcemia

1:00 – 1:20 pm
Vaxxinova – When pinkeye vaccination doesn’t work

3:40 – 4:00 pm
Alta Genetics/SCCL – Enriching maternal colostrum

**Friday, Sept. 22**

10:10 – 10:30 am
Hipra/Premier 1 Supplies – Mastitis in goats: control the problem through vaccination with VIMCO

1:20 – 1:40 pm
Protekta – The role of dietary phosphorous in hypocalcemia

3:55 – 4:15 pm
Alta Genetics/SCCL – Colostrum: an effective scours treatment
Welcome Reception

Join your peers and colleagues for refreshments and mingling at the Annual Conference Welcome Reception, courtesy of Boehringer Ingelheim Animal Health.

Wednesday, September 20 • 6–9 p.m.
Wisconsin Center - Ballroom CD

(Drink tickets behind your name badge.)
Join Us at AABP:

Why Productive Life Matters

Presented by:
Dr. Gavin Staley, MMedVet
Diamond V

Thursday, September 21, 2023
6:30–7:45 a.m. | Ballroom D

Open to all AABP conference attendees

Free Hot Breakfast
2023 JOB FAIR

Thursday, September 21
1:30 – 3:30 pm
Convention Center 202 C

The Job Fair is for veterinarians and 4th year students seeking a job. Promote your practice/company and available jobs, or meet practices/companies offering jobs.

MUST BE REGISTERED FOR THE JOB FAIR TO ATTEND.

AABP Poster Sessions!

Make sure to take a look at the poster session in the Exhibit Hall Thursday and Friday, and meet poster presenters Friday from 12:15 – 1:15 pm.

View 12 posters presented by AABP members and graduate students.

NEW! Student poster session! There will be 23 posters in the poster session by AABP students also in the Exhibit Hall.
AABP BREAKFAST

Friday, September 22
6:30 - 7:45 am

Convention Center Ballroom CD

Rethinking Clinical Mastitis Therapy
Dr. Juan Pedraza and Dr. Daniela Bruno

This presentation is approved CE.

Sponsored by:

zoetis™

OPEN TO ALL
AABP ATTENDEES
Two Days, Two Ways! All proceeds from the Silent and Live Auctions benefit the Amstutz Scholarship Fund and the AABP Foundation.

(Drink tickets behind name badge; admission ticket in registration pack.)

#1 SILENT AUCTION
Check out item descriptions and posters and keep up your bidding in the Exhibit Hall from Thursday, September 21 at 8:00 am until 4:00 pm Friday, September 22. 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 – 9:00 pm. Successful bidders need to complete their purchases immediately after the auction.
COME RUN THE 11TH ANNUAL AABP STAMPEDE

SEPT. 23 • 7:00 A.M. • REGISTRATION: $50
JUNEAU PARK, MILWAUKEE, WI
100% OF PROCEEDS GO TO THE AMSTUTZ SCHOLARSHIP FUND

Buses depart the Convention Center from 6:00 to 6:30 am.

AABP Annual Business Meeting & Awards Luncheon

Saturday, September 23
11:30 AM – 2:00 PM
Convention Center
Ballroom CD

All attendees are welcome to the Annual Business Meeting and Luncheon to learn about AABP activities and find out who will receive prestigious member awards!
2024 AABP Recent Graduate Conference

Sustainability in Cattle Practice – Keys to Unlocking Longevity

February 9-10, 2024
Knoxville, Tennessee

Registration opens in October.

The conference is limited to veterinarians who have graduated between 2016 and 2023.
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 2023 conference presentations, but also presentations from 2015-2022, including the 2018-2023 AABP Recent Graduate conferences.

Log onto the website at https://aabp.org and click on the purple cow-head logo.
Members of the Canadian Association of Bovine Veterinarians/Association Canadienne des Vétérinaires Bovins (which includes all Canadian bovine regional associations) are invited to attend this reception sponsored by Vetoquinol.

Have you tuned into an AABP *Have You Herd?* podcast?

Over 175 episodes featuring experts discussing cattle disease, production, treatment, practice and business management, work-life balance and more bring you great information every week!

*Search for AABP Have You Herd? podcasts at https://www.buzzsprout.com/814177; listen on your favorite podcast platform.*

Have a podcast suggestion or feedback? Email haveyouherd@aabp.org.
Do your Christmas shopping early or just get yourself a great item at the annual Amstutz Scholarship Fund Live and Silent Auctions! Everything from art, equipment, gift baskets and vacation destinations will be offered for bid.

**SILENT AUCTION**
Thursday
8:00 am - 6:30 pm
Friday
8:00 am - 4:00 pm
*Exhibit Hall*

**LIVE AUCTION**
During Friday Night Scholarship Dinner
6:00 to 9:00 pm
*Convention Center Ballroom CD*

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**AABP Raffle**

Support the Amstutz Scholarship Fund and the AABP Foundation by purchasing raffle tickets! The 2023 AABP raffle winners will be announced at the Amstutz Auction Friday evening, September 22. Buy your tickets at the AABP registration desk at the Annual Conference before 12 pm on Friday, Sept. 22.

*Tickets are $35 each; need not be present to win.*

**Purchase raffle tickets supporting the Amstutz Scholarship Fund, the AABP Foundation, or both(!) for your chance to win:**

**Prizes for Amstutz Scholarship Fund Raffle:**
1. One Free regular 2024 Annual Conference or Recent Graduate Conference registration
2. One Carhartt AABP Logo'd Vest

**Prizes for AABP Foundation Raffle:**
1. One Free regular 2024 Annual Conference or Recent Graduate Conference registration
2. One Carhartt AABP Logo'd Vest

Additional tickets can be purchased at the AABP booth or registration desk during the Annual Conference.
Amstutz Scholarship Fund

The Amstutz Scholarship Fund honors AABP’s first Executive Vice President, the late Dr. Harold E. Amstutz.

AABP Scholarships
The Amstutz Scholarship Fund honors AABP’s first Executive Vice President, the late Dr. Harold E. Amstutz. To date, 317 students have received the Amstutz Scholarship Award, AABP’s premiere scholarship. Total dollars awarded to these students is $1,213,750. Over 1,200 AABP members have donated $747,270, the 5K Stampede sponsored by Boehringer Ingelheim has generated $54,000, and the annual Amstutz scholarship auctions have contributed $785,000 which benefits both the Amstutz Scholarship Fund and the AABP Foundation.

Other scholarships administered through the AABP Foundation and their donations to-date include:

- The AABP Foundation – $279,308
- Edwin Robertson ET/Therio Scholarship for an Auburn or Lincoln Memorial University – $17,016
- Francis Welcome Future Dairy Practitioner Scholarship – $67,861
- James H. Bias Scholarship – $25,875 (including $12,500 from the AABP Foundation)

Donate at http://aabp.org.foundation/donate.asp

AABP wishes to thank all donors to the Amstutz Scholarship Fund!
The Foundation administers education grants, externship grants, scholarship grants, competitive research grants and cattle welfare research grants. 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.

**ALUMNI DERBY**

Support the AABP Foundation and the college of veterinary medicine you graduated from (or a college of your choice!) by donating to the AABP Foundation through the Alumni Derby! AABP will tally up the donations from alumni (and students!) during the conference. The school represented by the most donations will receive $500 for their student chapter.

Visit https://aabp.org/meeting/alumni_derby/ to donate or donate at the registration desk!
GUIDE TO EXHIBITORS

EXHIBIT HOURS

Thursday
8:00 am – 6:30 pm

Friday
8:00 am – 5:00 pm

LUNCH AVAILABLE
Thursday 12:15 – 1:30 pm
Friday 12:15 – 1:45 pm

CHUTESIDE CHATS
(page 47)

POSTER SESSION
Meet the Presenters 12:15 – 1:15 pm Friday

STUDENT CASE PRESENTATION WINNER
Friday 12:15 – 1:45 pm

STUDENT QUIZ BOWL (Friday)
Elimination Rounds 8:00 – 11:30 am
Final Round 12:15 – 1:45 pm
Special Quiz Bowl Challenge 3:45 – 4:15 pm

SILENT AUCTION
During Exhibit Hours until 4:00 pm Friday
**LISTING OF AABP EXHIBITORS**

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