



## TENTATIVE PROGRAM SCHEDULE

### NAAB 28<sup>th</sup> TECHNICAL CONFERENCE ON ARTIFICIAL INSEMINATION AND REPRODUCTION The Abbey Resort (Lake Geneva) Fontana, WI

**Wednesday Afternoon – October 27, 2021**

#### LABORATORY/SEMEN QUALITY WORKSHOP

**Dr. Kevin Rozeboom**  
Session Chair

- 1:00 pm Sperm motility and morphology**  
*Dr. Kevin Rozeboom, ABS Global*
- 1:30 pm Development, benefits and uses of flow cytometry**  
*Dr. Kilby Willenburg, Fast Genetics*
- 2:00 pm Identifying bacterial contamination**  
*Dr. Nicole Aulik, University of Wisconsin*
- 2:30 pm BREAK**
- 3:00 pm Liquid nitrogen safety and best practices**  
*Ron Zeiben, ABS Global*
- 3:20 pm Pipetting guide**  
*Karissa DeMille, PEAK*
- 3:40 pm GTLS Antibiotics – Stability and quality**  
*Dr. Gary Althouse, University of Pennsylvania*
- 4:00 pm Building confidence in your quality assurance program**  
*Mel DeJarnette, Select Sires*  
*John Schenk, Reproductive Physiologist*
- 5:00 pm NAAB Welcome Reception**
- 6:00 pm 75<sup>th</sup> Anniversary Celebration Dinner and Peer Awards**

**Thursday Morning – October 28, 2021**

#### GENERAL SESSION

**Dr. Bo Harstine**  
Session Chair

- 8:00 am Introduction and overview of NAAB and CSS**  
*Jay Weiker, NAAB/CSS*
- 8:20 am NAAB/CSS Research project updates**  
*Dr. Rory Meyer, NAAB/CSS*
- 8:40 am Genetic pathway of heat stress**  
*2019 NAAB Doak Graduate Fellowship - Laura Jensen, University of Florida*
- 9:10 am Beef cattle genetic improvement**  
*2020 NAAB Doak Graduate Fellowship - Elizabeth Donaldson, Kansas State University*
- 9:30 am Evaluation of on-animal sensors for detection of breeding impediments and beef bull performance during the breeding season**  
*2021 NAAB Doak Graduate Fellowship - Caleb Rykaczewski, Ohio State University*
- 9:40 am Student poster presenters**  
*Dr. Joe Dalton, University of Idaho*
- 10:00 am BREAK & Posters**
- 10:30 am Gene editing: Today and in the future**  
*Dr. Alison Van Eenennaam, University of California, Davis*
- 11:00 am Beef on dairy economics**  
*Dr. Aaron Arnett, STgenetics*
- 11:30 am Keynote: The AI industry. Eighty-years of making a world of difference and the best is yet to come**  
*Joel L. Mergler, Select Sires*
- 12:00 pm Lunch**

**Thursday Afternoon – October 28, 2021**

**BARN BREAKOUT SESSION**

**Bill Beckman**  
Session Chair

- 2:00 pm** Usefulness of bull breeding soundness exams to beef producers and genetics companies  
*John Schenk, Reproductive Physiologist*
- 2:30 pm** Health reactors, effects on CSS and exports  
*Dr. Rory Meyer, NAAB/CSS*
- 3:00 pm** Facility design for efficiency and safety  
*Dr. Jim Meronek, ABS Global*
- 3:30 pm** **BREAK & Posters**
- 4:00 pm** Bull calf management - the use of bolus technology  
*Dr. Randy Bond, STgenetics*
- 4:30 pm** **Beef panel - Case studies**  
*Dr. Aaron Arnett, STgenetics*  
*Logan Ridge, Select Sires MidAmerica*  
*Earl Souwa, Great Lakes Sire Service*
- 5:00 pm** **Happy Hour**

**Thursday Afternoon – October 28, 2021**

**LAB BREAKOUT SESSION**

**Dr. Vianney Salmon**  
Session Chair

- 2:00 pm** Membrane cryopreservation  
*Dr. Jim Graham, Colorado State University*
- 2:30 pm** Clues to fertility in seminal plasma of beef bulls  
*Dr. George Perry, South Dakota State University*
- 3:00 pm** The importance of zinc in the pathway to sperm fertilization competency  
*Dr. Karl Kerns, Iowa State University*
- 3:30 pm** **BREAK & Posters**
- 4:00 pm** The future of semen analysis. Semen experts round table  
*Dr. Leo Brito, University of Pennsylvania*  
*Mel DeJarnette, Select Sires*  
*Dr. Jim Graham, Colorado State University*
- 5:00 pm** **Happy Hour**

**Friday Morning – October 29, 2021**

**GENERAL SESSION**

**Dr. Marleen Broekhuijse**

**Session Chair**

**8:15 am Fertility markers in Holstein heifers,  
cows and bulls**

*Dr. Joe Dalton, University of Idaho*

**9:00 am Pregnancy loss with AI**

*Dr. Sofia Ortega, University of Missouri*

**9:30 am BREAK & Posters**

**10:00 am Using assisted reproduction to  
conserve Yellowstone bison genetics**

*Dr. Jennifer Barfield, Colorado State University*

**10:30 am Feed efficiency - Sire effect**

*Dr. Claas Heuer, STgenetics*

**11:00 am AI in small ruminants**

*Dr. Jason Anton, Ovaflo Genetics*

**11:30 am Sperm sorting. Science, technology and  
application**

*Juan Moreno, STgenetics*

**11:50 am Sexing semen: A different approach**

*Dr. Elon Roti Roti, ABS / IntelliGen*

**12:10 pm Closing Remarks**

*Dr. Bo Harstine, Select Sires*