

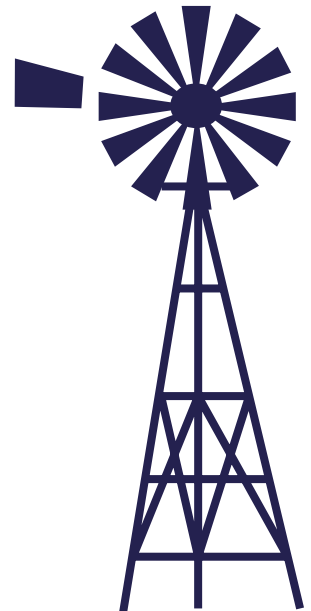


Application of Advanced
Genetic Technology in Beef Cattle

May 11-12, 2017 || Rapid City, South Dakota

Thursday, May 11, 2017

- 8:00 AM**
- Welcome and Introductions
 - Step 1: Developing a Breeding Objective
 - Identifying environmental constraints
 - Identifying marketing objectives
 - Economically relevant and indicator traits
 - Developing a breeding system: Crossbreeding
 - Breed selection
- 10:15 AM** **BREAK**
- 10:30 AM**
- Step 2: Animal/Sire Selection
 - Deciphering actual measurements, adjusted data, and ratios
 - Fundamentals of Expected Progeny Differences
 - Comparing EPD across breeds
- 12:00 PM** **LUNCH**
- 1:00 PM**
- Selection Decision Risk Management
 - The concept of accuracy
 - Possible change and confidence intervals
 - Multiple trait selection strategies
 - Utilization of Selection Indices
- 3:00 PM** **BREAK**
- 3:15 PM** Interactive Sire Selection Scenarios
- 5:00 PM** **ADJOURN**





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- 8:00 AM**
- Genomics 101: Definition and simple uses
 - Understanding the genome
 - What is a SNP?
 - Parentage
 - Defect Management
 - Genomically enhanced EPDs
- 10:15 AM** **BREAK**
- 10:30 AM**
- Applications of genomic tools by commercial producers
 - Sire Selection
 - Replacement selection
 - Marker-Assisted Management
 - Future directions
- 12:00 PM** **ADJOURN**

