

Wednesday, June 5, 2024

Sponsored by Balchem



Held at:
Grand River Center
500 Bell Street
Dubuque, IA 52001

Pre-Conference Symposium

- 8:00-8:05 AM Welcome**
Dr. Clay Zimmerman, Balchem Corporation
- 8:05-8:45 AM Understanding Amino Acid Bioavailability**
Dr. Mark Hanigan, Virginia Tech
- 8:45-9:25 AM Histidine - a Limiting Amino Acid for Dairy Cows?**
Dr. Alexander Hristov, Penn State University
- 9:25-10:00 AM Current Understandings of Lysine Nutrition in Dairy Cattle**
Dr. Chanhee Lee, Ohio State University

10:00-10:30 AM Break

- 10:30-11:15 AM Protein Nutrition of Transition Cows and Amino Acid Balancing in Early Lactation**
Dr. José Santos, University of Florida
- 11:15-11:30 AM Lysine Research Update**
Dr. Clay Zimmerman, Balchem Corporation

11:30-1:30 PM Lunch

Four State Conference Plenary

- 1:30-2:00 PM Feeding and Managing Cows for a Productive and Healthy Life**
Dr. Mike VandeHaar, Michigan State University
- 2:00-2:30 PM Feeding Cows to Reach Higher Peaks**
Dr. Bill Weiss, Ohio State University
- 2:30-3:00 PM Dietary Interventions for Prevention of Mineral Related Disorders Postpartum**
Dr. José Santos, University of Florida
- 3:00-3:30 PM Discussion**

3:30-4:15 PM Break

Breakout Sessions

6 Topics 2x; 4:15-4:45 PM & 4:50-5:20 PM

- Room 1 Update on Magnesium Nutrition of Cows**
Dr. Bill Weiss, Ohio State University
- Room 2 Feeding Strategically Throughout the Lactation to Promote Milk Production and Health**
Dr. Mike VandeHaar, Michigan State University
- Room 3 Feeding Corn Distillers Grains to Dairy Cows**
Dr. Chan Lee, Ohio State University
- Room 4 Understanding the Complexity of Hyperketonemia: Beyond the Norm, Before the Storm**
Dr. Luciano Caixeta, University of Minnesota
- Room 5 Balancing for Milk Protein and Butterfat in Lactation Diets**
Dr. Sebastian Arriola Apelo, University of Wisconsin
- Room 6 Graduate Student Presentations**

ARPUS CEU credits available on request.

Visit our website:



Thursday, June 6, 2024

Breakfast sponsored by Selko

6:45-8:00 AM **Effects of Replacing Sulfate with Hydroxychloride Sources of Trace Minerals on Performance of Transition Cows**
José Eduardo P. Santos, University of Florida



8:30-8:30 AM **Break in the Exhibit Hall**

General Session

Four State Conference Plenary

8:30-8:45 AM **Awards Ceremony for the Graduate Student Competition**
8:45-9:15 AM **Optimizing the Ratio of Corn Silage and Alfalfa: Grass in Dairy Feeding Programs**
Dr. Rick Grant, Miner Institute
9:15-9:45 AM **Could Nutrition have a Meaningful Impact on Reducing the Carbon Footprint of Milk?**
Dr. Alex Hristov, Penn State University
9:45-10:15 AM **Modulating Dairy Cow Performance with High Quality Forages**
Dr. Luiz Ferraretto, University of Wisconsin
10:15-10:30 AM **Panel with Speakers**

10:30-11:00 AM Break

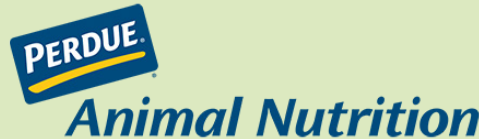
Breakout Sessions

6 Topics 2x; 11:00-11:30 AM & 11:40-12:10 PM

Room 1 Setting Accurate, Precise, and Inspiring Goals for Milk Fat and Protein
Dr. Kevin Harvatine, Penn State University
Room 2 Overcrowding and Response to the Formulated Ration
Dr. Rick Grant, Miner Institute
Room 3 Impact of Dry Matter Intake During the Transition Period to Optimize Uterine Health and Fertility
Dr. Phil Cardoso, University of Illinois
Room 4 Overcrowding and Response to the Formulated Ration
Dr. Paul Fricke, University of WI
Room 5 Challenging Dogma with New Research: Fatty Acid Supplementation Strategies for Early Lactation Cows
Dr. Adam Lock, Michigan State University
Room 6 Strategies to Improve Heifer Reproductive Performance and Reduce Heifer Rearing Costs
Dr. JP Martins, University of Wisconsin

Post-Conference

Sponsored by **Perdue Animal Nutrition**



12:30-12:45 PM **Introduction to Perdue Animal Nutrition**
Dr. Jonas de Souza, Director of R & D and Tech Services
12:45-1:25 PM **Production Responses of Dairy Cows to Protein and Amino Acid Supplementation**
Dr. Geoffrey Zanton, USDA-ARS, U.S. Dairy Forage Research Center
1:30-2:10 PM **Driving Milk Fat Synthesis: The importance of de novo Fatty Acids**
Dr. Kevin Harvatine, Penn State University
2:15-2:55 PM **Driving Milk Fat Synthesis: The Importance of Preformed Fatty Acid Sources**
Dr. Adam Lock, Michigan State University
3:00 PM **Closing Remarks**

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**4-State Dairy Nutrition and Management Conference
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Hotel Information


Grand Harbor
RESORT AND WATERPARK
Grand Harbor Resort
350 Bell St., Dubuque, IA
(563) 690-4000


Holiday Inn
Holiday Inn Dubuque
450 Main St., Dubuque, IA
(800) 315-2621

Room rate is \$119 + taxes; Cut off date is May 5. Be sure to mention 4-State Dairy to receive the group rate.

Room rate \$129 + taxes. Cut off date is May 15. Be sure to mention 4-State Dairy to receive the group rate.

Registration

**Registration Fee: \$195 per person
After May 20th: \$225 per person**

Please use this form or visit our online store to register at :
<https://bit.ly/Fourstate>

Refunds

To receive a full refund, you must contact the Wisconsin Agri-Business Association by May 27, 2024. After that date, a \$30 cancellation fee will be charged. No refunds after June 2nd. Registration questions, please contact WABA at 608-223-1111.

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