

15th ADSA Discover Conference on Food Animal Agriculture:
Biology of the Calf: Birth to 4 Months
November 16-19, 2008
Roanoke, VA

Sponsored by American Dairy Science Association

Sunday, November 16, 2008

6:00 p.m. Evening social and dinner

7:00 p.m. – 9:00 p.m. - Welcome and Conference goals - Dr. Larry Miller, Dr. Bob James, Dr. Sandra Godden.

Historical perspectives on the Biology of the Calf - Dr. Sheila McGuirk – University of Wisconsin, Mr. Mike Fowler – retired – Land O Lakes Animal Milk

Monday, November 17, 2008

7:00 Breakfast

Morning session I 7:45 – Noon

Role of colostrum on local and systemic development in neonatal calves.

Dr. Harald Hammon – Res. Inst. Biology of Farm Animals – Germany

Current perspectives of colostrum synthesis, secretion, and composition

Dr. Craig Baumracker – Penn State University

Discussion

9:45 Break

Absorption of IgG in neonatal calves, myths and legends

Dr. James D. Quigley III. – APC, Inc.

Microbial risks associated with feeding colostrum

Dr. Sandra Godden – Univ. of Minnesota

Discussion (for above two speakers and all morning speakers)

12:15 Lunch

Afternoon session II – 1:30 – 5:30

Immunology of the calf – Chris Chase – South Dakota State Univ.

Role of maternally derived WBC's passed in the colostrum on immune function

Dr. David Hurley – Univ. of Georgia

Discussion

3:15 Break

Practical approaches to vaccination the calf - vaccinating in the face of maternal antibody. Dr. Amelia Woolums – University of Georgia

Final discussion on immunology of the calf

Adjourn

Tuesday, November 18, 2008

7:00 Breakfast

Morning Session III– Biology of growth – 7:45 – Noon

Impact of the nutrient status of the dam on development of the calf. Fetal development and long term function of the calf. - Dr. Jim Drackley – Univ. of Illinois

Current state of nutrient requirements for growth, development of the digestive system and immune function. – Dr. Mike Van Amburgh – Cornell Univ.
Discussion

9:45 - Break

Impact of nutrition on mammary development – Dr. R. Michael Akers – Va. Tech
Discussion

11:45 Lunch

Afternoon Session IV – 1:30 – 3:00

Maturation of the digestive system into a functioning ruminant – Dr. Al Kertz – Andhil LLC

Discussion

Adjourn for the afternoon – recreation/ small group discussions.

Evening Session V - 7:00 – 9:30 p.m.

6:30 Ice Cream Social

What is animal welfare. – Dr. Dan Weary –Univ. British Columbia

Scientific assessment of welfare – Dr. Jeff Rushen – Pacific Agri-Food Res. Centre, British Columbia

Discussion

Wednesday, November 19, 2008

7:00 Breakfast

Morning session VI – 8:00 – Noon

Housing and management – Dr. Margit Bak Jensen – Univ. Aarhus, Denmark

Pain and disease – Dr. Ken Leslie – University of Guelph

Discussion

9:45 Break

Discussion of challenges from breakout groups

Open discussion and questions

Summary and Recommendations for the Future

Wrap up of key points and future avenues for research and application

Adjourn conference