Sunday, August 28, 2005
6:00 – 9:00 pm  Welcoming Reception, Dinner, & Keynote Speaker
Moderator: John E. Shirley, Kansas State University
Welcome: Bill Baumgardt, DISCOVER Conference Series
Why Should We Be Interested in the Amino Acid Requirements of Dairy Cows? Lou Armentano, University of Wisconsin-Madison

Monday August 29, 2005
7:00 am  Breakfast, Dining Room, Abe Martin Lodge
8:00 – 12 Noon  Session I: Current Knowledge of Amino Acid Requirements
Moderator: John Shirley, Kansas State University, Manhattan
Comments: Bill Baumgardt/Molly Kelley, DISCOVER Conference Series
General Perspective: Chuck Schwab, University of New Hampshire, Stafford
Questions and discussion
Maintenance Requirements: Helen Lapierre, Agriculture & Agri-Food Canada, Lennoxville, PQ
Questions and discussion
Break
Pregnancy and Postnatal Requirements: Alan Bell, Cornell University, Ithaca, NY
Questions and discussion
Mammary Gland Requirements: Brian Bequette, University of Maryland, College Park
General discussion: Questions and comments
12:00 – 1:00 pm  Lunch, Dining Room, Abe Martin Lodge
Afternoon free for further discussion and/or recreation
6:00 pm  Dinner on your own
7:00 – 9:00 pm  Session II: Ruminal Considerations Regarding Amino Acid Nutrition
Moderator: Gabriella Varga, Penn State University, University Park
Rumen Nitrogen Dynamics: John Wallace, Rowett Research Institute, Bucksburn, Aberdeen, Scotland
Questions and discussion
Increasing Nitrogen Capture by Rumen Microorganisms: Glen Broderick, USDA-ARS, Madison, WI
Questions and comments

Tuesday August 30, 2005
7:00 am  Breakfast, Dining Room, Abe Martin Lodge
8:00 – 12 Noon  Session III: Post Ruminal Considerations
Moderator: Alan Bell, Cornell University, Ithaca, NY
Predicting Digestibility of Dietary RUP and Its Constituent Amino Acids: Marshall Stern, University of Minnesota, St. Paul
Questions and discussion

Absorption and Post Hepatic Delivery of Amino Acids: Chris Reynolds, The Ohio State University-OARDC, Wooster
Questions and discussion

Regulation of Amino Acid Use in Splanchnic Tissues: Douglas Burrin, USDA ARS Children’s Nutrition Research Center, Baylor College of Medicine, Waco, TX
Questions and discussion

Break

Milk Protein Synthesis as a Function of Amino Acid Supply: Helen Lapierre, Agriculture & Agri-Food Canada, Lennoxville, PQ
General Discussion: Questions and comments

12:00 -1:00 pm Lunch, Dining Room, Abe Martin Lodge

1:30 – 3:30 Session IV: Industry Perspectives: Information Needed to Address Practical Problems
Moderator: Chuck Schwab, University of New Hampshire, Stafford
Robert Patton, Nittany Dairy Nutrition, Inc., Mifflinburg, PA
Phil Jardon, West Central Soy, Ralston, IA
Jim Aldrich, Akey, Lewisburg, OH
Brian Sloan, Adisseo North America, Alpharetta, GA
Spence Driver, Vita Plus Corporation, Madison, WI
General discussion

3:30 Free time for further discussion and recreation

6:00 Dinner on your own

7:00 – 9:00 pm Session V: Metabolic and Mammary Considerations
Moderator: Chris Reynolds, The Ohio State University-OARDC, Wooster
Regulation of Amino Acid Uptake and Utilization in the Porcine Mammary Gland: Nathalie Trottier, Michigan State University, East Lansing
Questions and comments
Metabolic Regulation of Amino Acid Utilization: Alan Bell, Cornell University, Ithaca, NY
General discussion and comments

Wednesday, August 31, 2005

7:00 am Breakfast, Dining Room, Abe Martin Lodge

8:00 – 12 Noon Session VI: Future Research and Application
Moderator: Robert Patton, Nittany Dairy Nutrition, Inc, Mifflinburg, PA
Predicting Passage of Microbial Crude Protein, RUP, and Endogenous Crude Protein to the Small Intestines (Approaches and Challenges): Ignacio R. Ipharraguerre, Cargill Animal Nutrition, Elk River, MN
Questions and discussion

**Modeling Amino Acid Needs of the Dairy Cow:** Mark Hanigan, Virginia Tech, Blacksburg

Questions and comments

**Break**

**Amino Acid Requirements of the Dairy Cow -- Conference Perspective:** Gabriella Varga, Penn State University, University Park

General Discussion

12:00  Lunch, Dining Room, Abe Martin Lodge

1:00  Adjourn