39th ADSA Discover Conference
The Transition Period – From Physiology to Management
October 26-29, 2020 at Eaglewood Resort & Spa in Itasca, IL
Hosted by the American Dairy Science Association

All events will be held in Red Oak Ballroom unless otherwise indicated.

Program Outline as of 12/18/2019

Monday October 26, 2020
4:30 PM Program Committee/Moderators meeting
5:00 - 7:00 Registration (Dinner on your own) – Red Oak Foyer

Opening Session  Moderator: TBD
7:00  Welcome & Recognitions. Larry Miller, DISCOVER Conference Series and DC39 Co-chairs Stephen LeBlanc, University of Guelph and Phil Cardoso, University of Illinois
7:10  Conference Keynote Speaker: How far have we come since 1999 and what is still needed in transition cow health? Jim Drackley, University of Illinois
7:45  Adjourn
8:00  Welcome Reception – Prairie River (lower level)

Tuesday October 27, 2020

Session 1: Physiology  Moderator: TBD
7:00 - 8:00 AM Continental breakfast – Black Break Area, Red Oak Foyer
8:00  Welcome and Announcements
8:10  Nutrient partitioning revisited: Can we quantify insulin resistance in dairy cows? Do we want to change it? Can we? Joe McFadden, Cornell University and Maya Zachut, Volcani Center
9:30  Discussion by all participants
10:00 Break
10:30 Fatty acid metabolism and nutrition. Adam Lock, Michigan State University
11:00 Hypocalcemia. Laura Hernandez, University of Wisconsin
11:30 Discussion by all participants
12:30 Lunch – Burnham’s Restaurant

Session 2: Inflammation and Immune Function
Moderator: TBD
1:30  Can we define/measure it? What causes it? Can we/should we limit it through diet or treatments? Erminio Trevisi, Catholic University of the Sacred Heart, Italy and Lance Baumgard, Iowa State University
2:30  Discussion by all participants
3:00 Break
3:30 Oxidative stress. Lorraine Sordillo, Michigan State University
4:00 Nutrition to minimize oxidative stress. Bill Weiss, The Ohio State University
4:30 Discussion by all participants
5:15 Adjourn

Wednesday October 28, 2020

Session 3: Management and Feeding
Moderator: TBD
7:00 - 8:00 AM Continental breakfast – Black Break Area, Red Oak Foyer
8:00  Feeding transition cows - what is new and what do we still need to learn? Tom Overton, Cornell University
8:30 Rumen adaption and SARA. Greg Penner, University of Saskatchewan
9:00 Nutrition strategies for improved health, production, and fertility during the transition period. Phil Cardoso, University of Illinois
9:30 Discussion by all participants
10:15 Break
10:45  Behavior and disease post-partum: insights from cattle and other species. Katy Proudfoot, The University of Prince Edward Island
11:15  Design and effects of housing on cow behavior and health. Nigel Cook, University of Wisconsin
11:45  Discussion by all participants
12:30  Lunch

**Session 4: Monitoring and Analysis**
**Moderator: TBD**
1:30  Monitoring systems for transition cow health. Miel Hostens, University of Ghent
2:00  Milk MIR to monitor transition cow health. Heather Dann, William H. Miner Agricultural Research Institute
2:30  Discussion by all participants
3:00  Break
3:30  Design and interpretation of studies on transition cows. Nora Bello, Kansas State University
4:00  Discussion by all participants
4:45  Adjourn

**Thursday October 29, 2020**
**Session 5: Health**
**Moderator: TBD**
7:00 - 8:00 AM Continental breakfast– Black Break Area, Red Oak Foyer
8:00  Adaptation to negative energy balance  Heather White, University of Wisconsin
8:30  Debate: Ketosis is not a disease. Lance Baumgard, Iowa State University and Todd Duffield, Ontario Veterinary College
9:30  Discussion by all participants
10:00  Break
10:30  Preventing hipocalcemia. José Santos, University of Florida
11:00  Discussion
11:30  Wrap-up and next. Jim Drackley, University of Illinois
11:45  Adjourn

**All speakers challenged to address:**
1. What is the current state of knowledge in this area (i.e. the topic they are presenting on)?
2. What is the current state of field application of this knowledge?
3. What questions do you have about your own area?
4. What do we still need to discover about this area? What should the priorities for ongoing research be?