

16th ADSA DISCOVER Conference on Food Animal Agriculture:

Direct Fed Microbials/Prebiotics for Animals: Science and Mechanisms of Action

Brown County Inn in Nashville, IN

April 19-22, 2009

Sponsored by the American Dairy Science Association

Final Conference Schedule

For distribution to committee members and speakers only

All conference activities will be held in the Ballroom at Brown County Inn unless otherwise specified.

Sunday, April 19, 2009

4:00-6:00 PM Registration

Opening Session

6:00 Welcome Reception and Dinner: Salt Creek Golf Retreat

7:30 Welcome

Larry Miller (ADSA Discover Conferences, Centreville, MD)

Stan Gilliland (Oklahoma State University, Dept. Animal Science, Stillwater, OK)

Steve Ricke (University of Arkansas, Dept. Food Science, Fayetteville, AR)

7:40–8:15 Overview of Direct Fed Microbials

Todd Callaway (USDA-ARS, Southern Plains Agricultural Rch Ctr, College Station, TX)

Monday, April 20, 2009

7:00–8:00 AM Breakfast

Morning Session I – Overview of Direct Fed Microbials and Prebiotics

Moderator: Stan Gilliland (Oklahoma State University, Dept. Animal Science, Stillwater, OK)

8:00 Introductory Comments – Larry Miller (ADSA Discover Conferences, Centreville, MD)

8:15 Function of Normal Intestinal Microbiota in Animal Health

John Patterson (Purdue University, Dept. Animal Science, West Lafayette, IN)

8:45 Current Status and Future Prospects of Direct Fed Microbials and Prebiotics

Steve Ricke (University of Arkansas, Dept. Food Science, Fayetteville, AR)

9:15 Discussion

9:45 **Break**

10:15 What Are Direct Fed Microbials?

Steven Woskow (Agtech Products Inc., Waukesha, WI)

10:45 Prebiotics of Plant and Microbial Origin

George Fahey (University of Illinois, Dept. of Animal Sciences, Urbana, IL)

11:15 General Discussion Period – all morning speakers

12:00 Lunch

Afternoon Session II – Overview of Direct Fed Microbials and Prebiotics (continued)

Moderator: George Fahey (University of Illinois, Dept. of Animal Sciences, Urbana, IL)

- 1:00 Microbial Species Involved
Lacey Guillen (Oklahoma State University, Dept. Animal Science, Stillwater, OK)
- 1:30 Important Characteristics and Selection
Stan Gilliland (Oklahoma State University, Dept. Animal Science, Stillwater, OK)
- 2:00 Discussion – both speakers
- 2:30 **Break**
- Panel: Challenges of Delivery of Microbials to Animals
- 3:00 Ruminants
Matt Garner (MicroBios, Cornell Business and Technology Park, Ithaca, NY)
- 3:30 Non-ruminants
Ellen Davis (Agtech Products Inc., Waukesha, WI)
- 4:00 Aquaculture
Wendy Sealey (Hagerman Fish Culture Experiment Station, Hagerman, ID)
- 4:30 Discussion Period – all afternoon speakers
- 5:15 **Adjourn**
Dinner on your own - Evening free for further discussions, networking and interactions

Tuesday, April 21, 2009

7:00-8:00 AM Breakfast

Morning Session III - Panel: Mechanisms of Action of Direct Fed Microbials

Moderator: Billy Hargis (University of Arkansas, Dept. Poultry Sci. Fayetteville, AK)

- 8:00 Control of Pathogens – brief comments by moderator
- 8:05 **Gloria Solamo-Aguilar** (USDA-ARS; Diet, Genomics and Immunol Lab, Beltsville, MD)
- 8:35 **Jim Croom & Matt Koci** (NC State University, Poultry Science, Raleigh, NC)
- 9:05 Discussion
- 9:35 **Break**
- 10:05 Improved Growth and Performance – brief comments by moderator
- 10:10 **Harry Dawson** (USDA-ARS; Diet, Genomics and Immunol Lab, Beltsville, MD)
- 10:40 **Steve Rust** (Michigan State University, Dept. Animal Science, East Lansing, MI)
- 11:10 Discussion

12:00 Lunch

Afternoon Session IV - Panel: Animal Species Applications – Direct Fed Microbials and Prebiotics

Moderator: John Patterson

- 1:30 Pets
David Harmon (University of Kentucky, Dept. Animal Science, Lexington, KY)
- 2:00 Poultry
Billy Hargis (University of Arkansas, Dept. Poultry Sci. Fayetteville, AK)

2:30 Aquaculture

Addison Lawrence (AgriLife Research Mariculture Lab., Port Aransas, TX)

3:00 Discussion Period – all three speakers

4:00 **Adjourn**

Wednesday, April 22, 2009

7:00–8:00 AM Breakfast

Morning Session V - Panel: Animal Species Application (continued)

Moderator: Stan Gilliland (Oklahoma State University, Dept. Animal Science, Stillwater, OK)

8:00 Swine

Robin Anderson (USDA-ARS, Southern Plains Agri Rch Ctr, College Station, TX)

8:30 Dairy Cattle

Doug Ware (Nutritional Physiology Corp, Chapel Hill, NC)

9:00 Beef Cattle

Clint Krehbiel (Oklahoma State University, Dept. Animal Science, Stillwater, OK)

9:30 **Break**

10:00 Discussion Period – all morning speakers

11:00 Conference “Wrap-up”

Todd Callaway (USDA-ARS, Southern Plains Agricultural Rch Ctr, College Station, TX)

11:40 **Adjourn Conference**