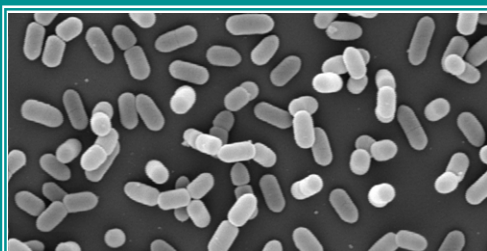


**16th Discover Conference on Food Animal Agriculture:**



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

**April 19-22, 2009  
Brown County Inn, Nashville, IN  
Sponsored by American Dairy Science Association**

**Conference Objectives**

This Discover Conference will address a number of specific topics related to the successful use of direct fed microbials and prebiotics. Examples of topics include but are not limited to:

- bacterial species and strain selection
- mechanism of action
- delivery systems including stability of the bacteria
- animal species specific issues
- prebiotics

The conference will address direct fed microbials and/or prebiotics for dairy cattle, beef cattle, swine, poultry, aquaculture and pets.

ADSA DISCOVER Conferences  
1111 North Dunlap Avenue  
Savoy, IL 61874

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

The interest in using direct fed microbials as feed supplements for various species of livestock has increased tremendously since the last Discover Conference on direct fed microbials (Prebiotics and Probiotics for Food Animals) held in 2000.

The understanding of the potential benefits of including probiotics (or direct fed microbials) in the diets of animals is far greater today than it was 10 years ago. Yet not all reported studies have shown positive results. This variability in results could result from several factors such as: improper selection of bacterial culture for the probiotic, poor viability of the culture at time of consumption, improper numbers of viable organisms in the product, improper growth of the bacterial culture for use in the product among others.

**Who Should Attend?**

Research scientists, nutrition consultants, producers, companies marketing direct fed microbials and prebiotics, advanced graduate students, feed company representatives, pet food company representatives, food company representatives, government/regulatory agency reps, international academic scientists, postdoctorates and veterinarians are encouraged to participate in this interactive program.

**Conference Format**

The Discover Conference Series was designed to provide a format and venue that encourages in-depth discussion of cutting-edge science.

ADSA Discover Conferences<sup>SM</sup> focus on topics of importance to the science of food animal agriculture and are held in a relaxed, informal setting. Sessions for this conference will allow ample time for discussion, networking, scientific exchange and relaxation.

**Registration Fee**

Registration postmarked by March 19, 2009 is \$395.00, which includes sessions and most meals. After March 19, the registration fee will be \$495.00 and will be accepted on an availability basis. To optimize interaction among participants, registration will be limited to the first 120 applications received.

**Accommodations**

The conference will be held at The Brown County Inn in Nashville, Indiana. All participants are responsible for making their own lodging reservations. Reservations can be made online at <http://www.adsa.org/discover/>.

**Location**

Perched atop one of Brown County, Indiana's softly rolling hills, The Brown County Inn welcomes visitors with charming, rustic architecture and warm interior that complement the panoramic view of wooded hills. The adjacent Brown County State Park offers miles of hiking trails, lakes and golf courses, as well as pool and tennis facilities. Nashville is a popular vacation site because of the pleasant countryside, abundance of artist studios and galleries, and various types of craftsmen.

**Travel**

The site is about one hour south of the Indianapolis International Airport and is easily accessible from I-65. Shuttle service and rental cars are available at the airport. Advance reservations are necessary for shuttle service. The meeting site is 15 miles off I-65 and is midway between Columbus and Bloomington, Indiana.

**For the Latest Conference Information**

go to:

<http://www.adsa.org/discover/>

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**Conference Schedule**

As of December 18, 2008  
For the latest program information, go to  
<http://www.adsa.org/discover/>

**Sunday, April 19, 2009:**

**Opening session**

4:00 – 6:00 PM Registration

6:00 PM Welcoming Reception, Dinner and Speaker

Welcome – **Larry Miller**, Discover Conference Series; **Stan Gilliland**, Oklahoma State University; and **Steven Ricke**, University of Arkansas

Speaker: **Todd Callaway**, USDA-ARS, Southern Plains Agricultural Research Ctr, College Station, TX

**Monday, April 20, 2009**

**Morning Session I**

**Panel overview of direct fed microbials and prebiotics:**

Current status and future prospects of direct fed microbials and prebiotics:

Speaker: **Steven Ricke**, University of Arkansas, Center for Food Safety, Fayetteville, AR

What are direct fed microbials?

Speaker: **Tom Rehberger**, Agtech Products Inc., Waukesha

Microbial species involved:

Speaker: **Mindy Brashears**, Texas Tech University, Dept of Animal/Food Sciences, Lubbock, TX

Important characteristics and selection:

Speaker: **Stan Gilliland**, Oklahoma State University, Dept. Animal Science, Stillwater, OK

**Afternoon Session II**

**Panel: Challenges of delivery of microbials to animals**

Ruminants:

Speaker: **Doug Ware**, Nutritional Physiology Corp, Chapel Hill, NC

Non-ruminants:

Speaker: **Ellen Davis**, Agtech Products Inc., Waukesha, WI

Aquaculture:

Speaker: **Wendy Sealey**, Hagerman Fish Culture Experiment Station, Hagerman, ID

**Evening Session III**

**Panel: Enhancement of action of direct fed microbials &/or natural flora in gut**

Prebiotics of plant and microbial origin:

Speaker: **George Fahey**, University of Illinois, Dept. of Animal Sciences, Urbana, IL

Function of Normal Intestinal Microbiota in Animal Health

Speaker: **John Patterson**, Purdue University, Dept. Animal Science, West Lafayette, IN

**Tuesday, April 21, 2009:**

**Morning Session IV**

**Panel: Mechanisms of action of direct fed microbials**

Control of pathogens:

Speaker #1: **Gloria Solamo-Aguilar**, USDA-ARS; Diet, Genomics and Immunol. Lab, Beltsville, MD

Speaker #2: **Matt Koci and Jim Croom**, NC State Univ, Poultry Science, Raleigh, NC

Improved growth and performance:

Speaker #1: **Harry Dawson**, USDA-ARS; Diet, Genomics and Immunol. Lab, Beltsville, MD

Speaker #2: **Steve Rust**, Michigan State University, Dept. Animal Science, East Lansing, MI

**Afternoon Session V**

**Panel: Animal species applications – direct fed microbials and prebiotics**

Beef cattle:

Speaker: **Clint Krehbiel**, Oklahoma State University, Dept. Animal Science, Stillwater, OK

Dairy cattle:

Speaker: **Matt Garner**, MicroBios, Cornell Business and Technology Park, Ithaca, NY

Aquaculture:

Speaker: **Addison Lawrence**, AgriLife Research Mariculture Lab., Port Aransas, TX

Remainder of afternoon and evening free for informal discussions, group dinners and/or recreation.

**Wednesday, April 22, 2009:**

**Morning Session VI**

**Panel: Animal species application (con't)**

Pets:

Speaker: **David Harmon**, University of Kentucky, Dept. Animal Science, Lexington, KY

Swine:

Speaker: **Robin Anderson**, USDA-ARS, Southern Plains Agri. Rch Ctr, College Station, TX

Poultry:

Speaker: **Billy Hargis**, Univ. of Arkansas, Dept. Poultry Sci. Fayetteville, AK

**Adjourn**

**Program Committee**

**Co-Chairmen:**

Stanley Gilliland, Oklahoma State University  
Steven Ricke, University of Arkansas

**Members:**

Chad Stahl, North Carolina State University  
Todd Callaway, USDA, College Station, TX  
Mindy Brashears, Texas Tech University  
George Fahey, University of Illinois  
Wendy Sealey, Hagerman Fish Culture Experiment Station, Hagerman, ID  
Charles Maxwell, University of Arkansas  
Clint Krehbiel, Oklahoma State University  
John Patterson, Purdue University  
Larry R. Miller, DISCOVER Conference Series  
Molly Kelley, DISCOVER Conference Series

**Discover Conference Steering Committee**

Larry R. Miller, Discover Conference Series, Chair  
William Aimutis, Cargill, Inc.  
Charlotte Kirk-Baer, USDA-CSREES  
Kathryn Boor, Cornell University  
Jimmy Clark, University of Illinois (retired)  
Harold M. Farrell, Jr., USDA-ARS  
Stanley E. Gilliland, Oklahoma State University  
Ronnie D. Green, Pfizer Animal Health  
Maynard Hogberg, Iowa State University  
James W. Lauderdale, Lauderdale Enterprises  
Rodney K. McGuffey, McGuffey Dairy Consulting  
John Shirley, Kansas State University

**American Dairy Science Association**

**Discover Conference Series**

**Phone: 217/356-5146 Fax: 217/398-4119**

**Email: [adsa-discover@assoqh.org](mailto:adsa-discover@assoqh.org)**

**Web site: [www.adsa.org/discover/](http://www.adsa.org/discover/)**

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**Conference Registration Form**

**REGISTER EARLY - conference will be limited to the first 120 registrants!**

Deadline for application: March 19, 2009\*.

Name: \_\_\_\_\_

Company/Institution: \_\_\_\_\_

Work Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_ Country: \_\_\_\_\_

Phone: \_\_\_\_\_ FAX: \_\_\_\_\_

E-mail: \_\_\_\_\_

Employer Description:  Academia  Corporate/Company  
 Government Agency  Independent/Consultant  
Other: \_\_\_\_\_

Primary responsibility:  Education/Extension  Industry Relations  
 Management  Marketing/Sales  Private Consulting  
 Research  Technical Service  Practicing Vet  
 Manufacturing/Distribution  
Other (identify): \_\_\_\_\_

Please check:  Attendee  Invited Speaker  
 Program Committee  
 Student:  Undergrad  Graduate

CONFERENCE REGISTRATION FEE:  
\$395.00 until 03/19/09 \* After 03/19/09: \$495.00  
 Check  
 DISCOVER  MasterCard  Visa  AmEx

Card #: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Signature: \_\_\_\_\_

RETURN REGISTRATION WITH PAYMENT:

**Direct Fed Microbials/Prebiotics for Animals**

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EM: [adsa-discover@assoqh.org](mailto:adsa-discover@assoqh.org) Web : [www.adsa.org/discover/](http://www.adsa.org/discover/)

**Housing Information:** All participants are responsible for making their own lodging reservations at the Brown County Inn in Nashville, Indiana. Reservations can be made online at <http://www.adsa.org/discover/>