

## 15th ADSA Discover Conference on Food Animal Agriculture:



### Biology of the Calf: Birth to 4 Months

November 16-19, 2008  
Hotel Roanoke and Conference Center  
Roanoke, Virginia

Sponsored by American Dairy Science Association  
and in Cooperation with  
Virginia Cooperative Extension

#### Conference Objectives:

This conference will provide a platform for discussion of issues pertaining to optimum development and management of the young dairy calf. It will comprise focused discussions in the major areas of passive transfer of immunity and immune development in the calf, nutrient requirements and the impact on health and mammary development, animal welfare, and additional management practices which influence long term productivity and economic efficiency.

#### Who should attend?

Members of the research and academic community, leading consultants, and extension educators, industry leaders involved in providing services and products to those involved in growing calves and members of governmental and regulatory agencies are encouraged to participate in this interactive program. Students and early career professionals are especially encouraged to attend.

#### 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 October 16, 2008 is \$395.00, which includes sessions and most meals. After October 16, 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 Hotel Roanoke and Conference Center in Roanoke, Virginia. All participants are responsible for making their own lodging reservations. Reservations can be made online at [http://www.adsa.org/discover/15thDiscover\\_2008.htm](http://www.adsa.org/discover/15thDiscover_2008.htm), clicking on the Conference Accommodations link.

**Location** The historic Hotel Roanoke and Conference Center is situated alongside downtown Roanoke in the heart of Virginia's Blue Ridge Mountains, just minutes from Roanoke Regional Airport.

Built in 1882, the beautifully restored Tudor-style Hotel Roanoke is proudly listed on the National Register of Historic Places. Hotel Roanoke is pleased to offer world-class lodging facilities, including newly renovated guest rooms and 63,000 square feet of state-of-the-art conference space. The Roanoke Valley boasts a wide variety of golf and tennis facilities, as well as great outdoor recreation with hiking, biking, boating and fishing in the surrounding Blue Ridge Mountains. And those who would like to adventure closer to the hotel can head downtown for its galleries, shops and a famous Roanoke Farmer's Market which offers the best in cultural arts and culinary specialties.

#### Travel

The Hotel Roanoke and Conference Center is located adjacent to downtown Roanoke in Southwestern Virginia approximately 4 hours south of Washington, D.C. It is convenient to major interstates and to the Roanoke airport which is served by US Airways, United, Delta, and Northwest airlines. Free shuttle service is provided by the Hotel Roanoke and Conference Center.

**For the Latest  
Conference  
Information**  
go to:



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

ADSA DISCOVER Conferences  
1111 North Dunlap Avenue  
Savoy, IL 61874

15th Discover Conference  
on Food Animal Agriculture:  
**Biology of the Calf:  
Birth to 4 Months**  
November 16-19, 2008  
Hotel Roanoke and Conference Center  
Roanoke, Virginia  
Sponsored by American Dairy Science Association  
and in Cooperation with Virginia Cooperative Extension

**15<sup>th</sup> ADSA Discover Conference  
on Food Animal Agriculture:  
Biology of the Calf: Birth to 4 Months**  
November 16-19, 2008  
Hotel Roanoke and Conference Center  
Roanoke, Virginia

Sponsored by American Dairy Science Association  
and in Cooperation with  
Virginia Cooperative Extension

**Conference Schedule**  
As of June 23, 2008

For the latest conference information, go to  
<http://www.adsa.org/discover/>

**Sunday, November 16, 2008**

4:00 – 6:00 PM Registration

6:00 – 8:15 PM Welcoming Reception, Dinner  
and Speaker

Welcome - Dr. Larry Miller, Discover Conference  
Series; Dr. Sandra Godden, University of  
Minnesota, Dr. Bob James, Virginia Tech  
Historical perspective and conference goals – Dr.  
Sheila McGuirk, University of Wisconsin and Mr.  
Mike Fowler, Land O Lakes Animal Milk (retired)

**Monday, November 17, 2008**

**Morning Session I**

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  
Baumrucker, Pennsylvania State University  
Absorption of IgG in neonatal calves, myths and  
legends – Dr. James Quigley III, APC, Inc.  
Microbial risks associated with feeding colostrum  
– Dr. Sandra Godden, University of Minnesota  
Open discussion and questions

**Afternoon Session II**

Immunology of the calf – Dr. Chris Chase, South  
Dakota State University  
Role of maternally derived WBC's passed in the  
colostrum on immune function – Dr. David Hurley,  
University of Georgia  
Practical approaches to vaccination.  
Vaccinating in the face of maternal antibody -  
Dr. Amelia Woolums, University of Georgia

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

**Tuesday, November 18, 2008**

**Morning Session III**

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, University of Illinois  
Current state of nutrient requirements for growth,  
development of the digestive system and  
immune function – Dr. Mike Van Amburgh, Cornell  
University  
Impact of nutrition on mammary development –  
Dr. R. Michael Akers, Virginia Tech

**Afternoon Session IV**

Maturation of the digestive system into a  
functioning ruminant – Dr. Al Kertz, ANDHIL  
Consulting

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

**Evening Session V**

Ice Cream Social  
What is animal welfare? – Dr. Dan Weary,  
University of British Columbia  
Scientific assessment of welfare – Dr. Jeff Rushen,  
Pacific Agri-Food Res. Centre, British Columbia

**Wednesday, November 19, 2008**

**Morning Session VI**

Housing and management – Dr. Margit Bak  
Jensen, Univ. Aarhus, Denmark  
Pain and disease – Dr. Ken Leslie, University of  
Guelph

Discussion of challenges from breakout groups  
Open discussion and questions  
Wrap up of key points and future avenues for  
research and application

**Adjourn conference**

**Program Committee**

Bob James, Virginia Tech, Co Chair  
Sandra Godden, University of Minnesota,  
Co Chair  
Jim Drackley, University of Illinois  
Pat Hoffman, University of Wisconsin  
Al Kertz, Andhil Consulting  
Sheila McGuirk, University of Wisconsin  
Geoff Smith, North Carolina State 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, USDA-ARS  
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@assochoq.org](mailto:adsa-discover@assochoq.org)  
Web site: [www.adsa.org/discover/](http://www.adsa.org/discover/)

*Discover Conferences are designed to provide a  
format and venue to encourage in-depth discussions  
of cutting-edge science.*



**15<sup>th</sup> ADSA Discover Conference  
on Food Animal Agriculture:  
Biology of the Calf: Birth to 4 Months**

November 16-19, 2008  
Hotel Roanoke and Conference Center  
Roanoke, Virginia  
Sponsored by American Dairy Science Association  
and in Cooperation with Virginia Cooperative Extension

**Conference Registration Form**

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

Deadline for application: October 16, 2008.\*

Name: \_\_\_\_\_  
Last First Middle

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 10/16/08 \* After 10/16/08: \$495.00  
 Check  
 DISCOVER  MasterCard  Visa  AmEx

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

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

**RETURN REGISTRATION WITH PAYMENT:**

**Biology of the Calf: Birth to 4 Months**

ADSA Discover Conferences  
1111 North Dunlap Avenue  
Savoy, IL 61874  
PH: 217/356-5146 FX: 217/398-4119  
EM: [adsa-discover@assochoq.org](mailto:adsa-discover@assochoq.org) Web :  
[www.adsa.org/discover](http://www.adsa.org/discover)

**Housing Information:** All participants are responsible for  
making their own lodging reservations. Go to:  
[http://www.adsa.org/discover/15thDiscover\\_2008.htm](http://www.adsa.org/discover/15thDiscover_2008.htm),  
clicking on the Conference Accommodations link.