

Theme:

The Challenges in Animal Nutrition in the 21st Century

Conference Speakers:

- Marty Adams Southern States
- Michael C. Barry Ag Models, LLC
- Keith Behnke Kansas State Univ.
- Julia Dibner Novus International
- Terry D. Etherton Penn State Univ.
- James D. Ferguson Univ. of Pennsylvania
- David W. Freeman Oklahoma State Univ.
- Robert C. Fry Atlantic Dairy Mgmt. Services
- Raymond J. Geor Virginia Tech
- Patricia M. Graham-Thiers VA Intermont Coll.
- Hubert Karreman Penn Dutch Cow Care
- Larry Katz Rutgers University
- Michael Kidd Mississippi State Univ.
- Penny M. Kris-Etherton Penn State Univ.
- Laurie M. Lawrence Univ. of Kentucky
- Michael Lilburn Ohio State Univ.
- Sally Noll Univ. of Minnesota
- Karen O'Connor O'Connor Event Team
- David J. Schingoethe ... South Dakota State Univ.
- Vijay Singh Univ. of Illinois
- James N. Spain Univ. of Missouri
- Charles C. Stallings Virginia Tech
- William Thatcher Univ. of Florida
- Martin W. A. Verstegen Wageningen Univ.
- Park W. Waldroup Univ. of Arkansas

**FIFTH
MID-ATLANTIC
NUTRITION
CONFERENCE**

March 28-29, 2007

**Holiday Inn Select-
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Timonium, Maryland
(Ph: 410-252-7373)
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- Maryland Feed Industry Council**
- University of Maryland**
- Pennsylvania State University**
- University of Penn. Veterinary School**
- University of Delaware**
- Virginia Polytechnic Institute**
- Rutgers University**
- West Virginia University**
- American Feed Industry Assoc.**

USDA

Cooperating

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Conference Committee:

Conference Chair Nick Zimmermann
Program Chair Paul Patterson
Symposium Chair Curtis Novak
Proceedings Editor Nick Zimmermann
Coordinator/Registration Clare Capotosto

Program Committees:

General Program Committee: Bob Elkin, Chair, Penn State; Kathleen Crandell, Co-chair, VA Tech

Poultry Nutrition: Bill Saylor, Chair, U. of DE; Ted Miller, Co-chair, Mountaire Farms; Roselina Angel, U. of MD; Curtis Novak, VA Tech.

Dairy Nutrition: Rich Erdman, Chair, U. of MD; Clay Zimmerman, Co-chair, Blue Seal Feeds; Ben Corl, VA Tech; Jim Ferguson, U. Penn; Tonya Gressley, U. of DE; Lisa Holden, Penn State; Dave Kirk, Pennfield.

Equine Nutrition: Ann Swinker, Chair, Penn State; Karen Engle, Co-chair, Southern States; Marty Adams, Southern States; Amy Burk, U. of MD; Kathleen Crandell, VA Tech; Dave Marshall, U. of DE; Erin Petersen, U. of MD; Burt Staniar, VA Tech; Carey Williams, Rutgers Univ.

On-site registration at the conference is \$120, \$85, \$85, and \$10, respectively.

General registration entitles each participant to attend all conference talks, one copy of the *Proceedings*, all refreshment breaks, the reception, and the luncheon on 3/29/07.

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We can petition any professional organization for CEUs on your behalf; just let us know. We currently offer CEUs for ARPAS and for veterinarians.

PRE-REGISTRATION FORM

Please complete and return this form before **March 18, 2007**, with payment to:

Maryland Feed Industry Council, Inc.
ATTN: Clare Capotosto
1409 Animal Sciences Center
University of Maryland
College Park, MD 20742-2311

Please circle Poultry, Dairy, or Equine to indicate the session that you plan to attend on 3/29/07.

Name _____ P D E

Affiliation _____

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Additional Names Registering from the Same Affiliation:

_____ P D E

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No. of Registrants: ____ @ \$100 General

No. of Registrants: ____ @ \$65 Gov't./Univ.

No. of Registrants: ____ @ \$65 March 29 only

No. of Students: ____ @ \$0.00 (Advisor must sign off on registration form)

No. of Emeritus Professors: ____ @ \$0.00

No. Attending March 29 Luncheon _____ (Included in registration fee, need count)

No. of Additional Proceedings: ____ @ \$15

Total Pre-Registration Fees Submitted:\$_____

(Payable to: "MD Feed Industry Council")

Wednesday, March 28, 2007

Tentative Program
**5th MID-ATLANTIC
NUTRITION CONFERENCE**

7:00 a.m. Registration (both days) – Lobby

Coffee Service

GENERAL SESSION:

Moderator – Kathleen Crandell, VA Tech

8:45 a.m. Welcome Address
Larry Katz, Rutgers University

8:55 a.m. General Announcements

9:00 a.m. The Challenges in Animal Nutrition in
the 21st Century.
Martin W. A. Verstegen, Wageningen
University

9:30 a.m. Future Prospectives on Feeding the
Athletic Horse.
Raymond J. Geor, Virginia Tech

10:00 a.m. Biofuels and Broilers – Competitors
or Cooperators?
Park W. Waldroup, U. of Arkansas

10:30 a.m. **BREAK**

11:00 a.m. Biotechnology in the Barnyard – What
Will it Look Like in 2050?
Terry D. Etherton, Penn State

11:30 a.m. The Role of Animal Products in the Diet
to Reduce the Risk of Chronic Disease –
A Futuristic Vision of Potential New
Foods.
Penny M. Kris-Etherton, Penn State

12:00 - 1:30 p.m. **LUNCH ON YOUR OWN**

1:30 - 5:00 p.m.

**NOVUS INTERNATIONAL
TECHNICAL SYMPOSIUM**

Co-Moderators –
Poultry - Sherry McComas
Dairy – Andy Webb
(See enclosed program.)

Reception Following Program

Thursday, March 29, 2007

**Concurrent Sessions:
POULTRY NUTRITION PROGRAM**

Moderator – Bill Saylor, Univ. of Delaware

**SESSION I: Early Nutrition of Chicks and
Poults**

8:00 a.m. What Do We Know After 30 Years
of Early Nutrition Research?
Julia Dibner, Novus International

8:50 a.m. Feeding the Hen for Offspring
Productivity.
Michael Kidd, Mississippi State
University

9:40 a.m. **BREAK, Posters, Vendor tables**

10:20 a.m. How Do We Evaluate Early
Nutrition: What is “Day One?”
Michael Lilburn, Ohio State Univ.

11:10 a.m. Poultry Nutrition Roundtable: What
are the Critical Issues for Industry
Nutritionists Today?
Moderator – Roselina Angel, Univ.
of Maryland

12:00 p.m. **LUNCH SERVICE**

**SESSION II: Using Distiller Dried Grains in
Today’s Poultry Diets**

1:30 p.m. Feed Manufacturing Considerations
for Using DDG’s in Poultry and
Livestock Diets.
Keith Behnke, Kansas State Univ.

2:20 p.m. Process and Engineering Effects on
DDGS Products – Present and
Future.
Vijay Singh, University of Illinois

3:10 p.m. Formulating Poultry Diets With
DDGS – How Far Can We Go?
Sally Noll, University of Minnesota

4:00 p.m. **Adjourn**

Thursday, March 29, 2007

**Concurrent Sessions:
DAIRY NUTRITION PROGRAM**

Chair – Rich Erdman, Univ. of Maryland

SESSION I – Clay Zimmerman, Moderator

8:00 a.m. Use of Ethanol Distiller’s Byproducts in
Lactating Dairy Cow Diets.
David J. Schingoethe, South Dakota
State Univ.

Using Nutrition to Enhance Dairy Cattle Reproduction

8:50 a.m. Modifying Protein Nutrition to Enhance
Reproductive Performance.
James D. Ferguson, Univ. of
Pennsylvania

9:40 a.m. **BREAK, Posters, Vendor tables**

10:20 a.m. Using Mineral and Vitamin
Supplements to Enhance Reproductive
Performance.
James N. Spain, Univ. of Missouri

11:10 a.m. Using Fats and Fatty Acids to Enhance
Reproductive Performance.
William Thatcher, Univ. of Florida

12:00 p.m. **LUNCH SERVICE**

SESSION II – Rich Erdman, Moderator

Feed and Health Management of the Organic Dairy

1:30 p.m. Challenges and Opportunities
Associated with Feeding and
Management of the Organic Dairy.
Robert C. Fry, Atlantic Dairy
Management Services

2:20 p.m. Health Management of the Organic
Dairy.
Hubert Karreman, Penn Dutch Cow
Care

3:10 p.m. National Resource and Conservation
Service Dairy Nutrition Nutrient
Management Research Projects in the
Mid-Atlantic Region.
Charles C. Stallings, Virginia Tech

4:00 p.m. **Adjourn**

Thursday, March 29, 2007

**Concurrent Sessions:
EQUINE NUTRITION PROGRAM**

Moderator – Ann Swinker, Penn State Univ.

EQUINE NUTRITION: SESSION I

8:00 a.m. Challenges Associated With
Determining the Energy
Requirements of Horses.
Laurie M. Lawrence, Univ. of
Kentucky

8:50 a.m. Using Models to Predict
Requirements and Supply of
Nutrients of the Horse.
Michael C. Barry, Ag Models, LLC

9:40 a.m. **BREAK, Posters, Vendor tables**

10:20 a.m. Carbohydrate Nutrition -
Implications for Disease.
Raymond J. Geor, Virginia Tech

11:10 a.m. Protein and Amino Acids –
Improving Protein Quality.
Patricia M. Graham-Thiers, VA
Intermont College

12:00 p.m. **LUNCH SERVICE**

EQUINE NUTRITION: SESSION II

1:30 p.m. Using the NRC to Manage Horse
Nutrition.
David W. Freeman, Oklahoma State
Univ.

2:20 p.m. The Feed Industry’s Perspective on
the New NRC.
Marty Adams, Southern States

3:10 p.m. A Trainer and Competitor’s Point of
View on Nutrition and Performance.
Karen O’Connor, O’Connor Event
Team

4:00 p.m. **Adjourn**
