

# 70th Minnesota Nutrition Conference

Holiday Inn, Owatonna, MN

September 15-16, 2009

TUESDAY, SEPTEMBER 15, 2009

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8:00 AM Registration  
Coffee and rolls

## — Symposium: Fostering Optimum GI Development, Integrity and Function in Livestock and Poultry —

*\*Sponsored by BFI Innovations, Inc. / Nutri-Ad\**

8:30 AM Welcome - Keith Klanderman, President and CEO, BFI Innovations, Inc.

8:40 *Moderator:* Steve Moreland, DVM, VP of Technology and Innovations, BFI Innovations, Inc.

*Speaker:* Chaouki Benchaar, Agriculture and Agri-Food Canada, Sherbrooke, Quebec  
Essential oils as rumen modifiers in dairy cows: Opportunities and challenges

9:25 *Speaker:* Jan Van Eys, Nutri-Ad, Paris, France  
Modulation of immune function in food producing animals designed to optimize gut health, general well-being and production performance- With special emphasis on yeast cell wall components

10:10 Break

10:25 *Moderator:* Grady Fain, VP of Sales-North America, BFI Innovations, Inc.

*Speaker:* Peter Ferket, North Carolina State University, Raleigh  
Epigenetic adaptations in poultry: A case for in ovo feeding strategies

11:10 *Moderator:* José Luis Laparra, M.V.Z., MS, Managing Director, BFI Innovations Mexico

*Speaker:* José Antonio Cuarón, INIFAP, Queretaro, Mexico  
Organic acid utilization in early phases of pig production with special emphasis on butyric acid: Enzymatic efficiency, antimicrobial potential and GI development in the young pig

11:55 Closing comments - BFI Innovations, Inc.

12:00 PM Lunch *\*Sponsored by BFI Innovations, Inc. / Nutri-Ad\**

## — University of Minnesota Livestock Research Update —

12:50 PM Welcome – Lee Johnston, Conference Co-Chair

1:00 Crude glycerin in market turkey diets - Sally Noll, Department of Animal Science

1:15 Growth performance, carcass characteristics, physiological and gut health effects of feeding diets containing BMD to heat stressed finishing pigs - Jerry Shurson, Department of Animal Science

1:30 Reducing negative effects of sulfur in beef cattle diets - Grant Crawford, University of Minnesota Extension

1:45 Trace mineral nutrition of dry cows and progeny growth - Greg Golombeski, Department of Animal Science

- 2:00 Break
- 2:30 Low oligosaccharide soybean meal in diets of early weaned pigs – Samuel Kofi Baidoo, Southern Research and Outreach Center
- 2:45 Managing hay and supplement intake in wintering beef cows - Alfredo DiCostanzo, Department of Animal Science
- 3:00 Biofilters for odor control - Kevin Janni, Department of Bioproducts and Biosystems Engineering
- 3:15 In vitro and in vivo effects of soluble crude protein, *Yucca schidigera* extract and *Saccharomyces cerevisiae* on rumen metabolism – Martin Ruiz-Moreno, Department of Animal Science

### — Animal Welfare for Nutritionists —

- 3:30 <sup>PM</sup> Distinguishing between animal abuse and bad management - Edmond Pajor, University of Calgary
- 4:15 Expectations of an animal welfare audit - Earl Dotson, Validus Services LLC
- 4:55 Wrap-up
- 5:00-7:00 Reception
- 7:00 Conference Dinner (*\$25 pre-paid by Sep 1; \$30 after Sep 1*)  
Dinner Speaker: Mr. Lynn Becker, LB Pork, Fairmont, MN  
“Pork Production in the Age of Activism”

### WEDNESDAY, SEPTEMBER 16, 2009

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### — Ruminant Session —

- 8:00 <sup>AM</sup> Registration  
Coffee and rolls
- 8:25 Welcome
- 8:30 Poisonous plants in livestock feeding - Krishona Martinson, University of Minnesota
- 9:10 Nutrition and management of feedlot heifers - Jolene Kelzer, University of Minnesota
- 9:50 Break
- 10:20 Effects of source and particle size of fiber on feedlot performance and carcass characteristics - Nicolas DiLorenzo, Texas Tech University
- 11:00 Implications of cow size on formulating beef cow rations - Ryon Walker, University of Minnesota Extension
- 11:40 Diamond V Update
- 12:00 Lunch *\*Sponsored by Diamond V Mills\**
- 1:00 <sup>PM</sup> Nutritional factors affecting mammary gland development of growing dairy heifers - Michael VandeHaar, Michigan State University
- 1:40 Milk fat depression: Interactions of ionophores, fat supplements, and other risk factors - Thomas Jenkins, Clemson University  
*\*Sponsored by Elanco Animal Health\**

- 2:20 Break
- 2:40 Achieving better reproduction: Does nutrition impact reproduction programs? - Ricardo Chebel, University of Minnesota
- 3:20 New on-farm technologies for dairy consultants - Jeff Reneau, University of Minnesota
- 4:00 Adjourn

### WEDNESDAY, SEPTEMBER 16, 2009

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#### — Non-ruminant Session —

- 8:00 <sup>AM</sup> Registration  
Coffee and rolls
- 8:25 Welcome
- 8:30 Dietary interventions to enhance human health aspects of pork - Ryan Cox, University of Minnesota
- 9:10 National swine nutrition guide - Mark Whitney, University of Minnesota Extension
- 9:50 Break
- 10:20 New amino acid concentrations for industry grow-finish swine diets - Mark Bertram, First Choice Livestock, LLC
- 11:00 Feeding market boars for pork production - José Antonio Cuarón, National Disciplinary Research Center on Animal Physiology and Improvement
- 11:40 Diamond V Update
- 12:00 Lunch *\*Sponsored by Diamond V Mills\**
- 1:00 <sup>PM</sup> Proper conduct and interpretation of field trials - Kenneth Krueger, Diamond K Research and Consulting Service  
*\*Sponsored by Sparboe Farms, Inc.\**
- 1:40 Digestible amino acid formulations for poultry - Todd Applegate, Purdue University  
*\*Sponsored by Evonik Industries\**
- 2:20 Feed formulations to control risk - Bill Roush, USDA-ARS (retired)
- 3:00 Adjourn