Penn State Extension Dairy Cattle Nutrition Workshop
Continuing education for feed industry professionals and nutritional consultants

November 12-13, 2014
Holiday Inn, Grantville, PA

Presented by the Penn State Extension Dairy Team
Preconference symposium sponsored by Chr. Hansen, Inc.
Penn State Dairy Nutrition Workshop Agenda

November 12, 2014

7:00 - 8:00 Registration
8:00 - 12:15 Preconference Symposium Sponsored by Chr. Hansen, Inc.
8:15 - 8:30 The Dairy Sustainability Cycle: Using Critical Control Points (CCP) to Optimize Energetic Efficiency... Dr. Keith Bryan, Chr. Hansen
8:30 - 9:15 CCP Harvest: Shredlage vs. Processed Corn Silage, Does the Cow Care?...Dr. Mike Hutjens, University of Illinois
9:15 - 10:00 CCP Storage: Limiting Dry Matter and Quality Losses from Harvest to Feedout...Mr. Ev Thomas, Oak Point Agronomics
10:00 - 10:30 Break
10:30 - 11:15 CCP Storage: The Fermentation Process from Onset to Feedout—Efficiency and Opportunities... Dr. John Goeser, Rock River Laboratories
11:15 - 12:00 CCP Feeding: Extracting MORE From Feed and Forage... Dr. Nicola Walker, AB Vista
12:00 - 12:15 Questions for the preconference speakers
12:15 - 2:00 Lunch, sponsored by Chr. Hansen, Inc.
12:15 - 1:30 ARPAS Northeast Chapter annual meeting ►ARPAS Members Only; RSVP REQUIRED◄
Chromium and Potential Benefits to Reproduction... Dr. Jim Ferguson, University of Pennsylvania
12:00 - 8:00 Exhibit hall open
2:00 - 3:15 Afternoon breakout session 1
3:15 - 3:30 Break, sponsored by Chr. Hansen, Inc.
3:30 - 4:45 Afternoon breakout session 2
5:00 - 7:00 Reception in exhibit area - Sponsored by Alltech
7:15 - 9:30 Evening session and dinner ►RSVP REQUIRED◄
Sponsored by H.J. Baker & Bro., Inc.
Update Diets to Feed for Lower Crude Protein... Dr. Alex Hristov, Penn State
How to Feed Distillers Successfully... Dr. Paul Kononoff, University of Nebraska-Lincoln

November 13, 2014

6:30 - 7:45 Breakfast ►RSVP REQUIRED◄
Sponsored by Multimin USA
Importance of Trace Minerals to the Bovine Immune System...Dr. Dan Tracy, Multimin USA
7:00 - 3:00 Exhibit hall open
8:00 - 8:45 A New Lab Test (TTNDFD) to Measure Diet Fiber Digestibility for Dairy Cattle... Dr. Dave Combs, University of Wisconsin-Madison
8:45 - 9:30 Food Safety Modernization Act Update... Mr. Richard Sellers, American Feed Industry Association
9:30 - 10:15 Managing Outside the Box to Achieve High Forage Diets... Mr. Tom Kilcer, Advanced Ag Systems
10:15 - 10:45 Break
10:45 - 11:45 Morning breakout session 1
11:45 - 12:00 Break
12:00 - 1:00 Lunch, sponsored in part by Novus International, Inc.
2:00 - 3:00 Afternoon breakout session
All-day breaks sponsored by Prince Agri Products, Vi-COR, and Zinpro
3:15 - 5:30 Post-conference Seminar Sponsored by Novus International, Inc. ►RSVP REQUIRED◄
Methionine Sources: Understanding Where They All Fit In
Methionine Concepts and Model Application... Dr. Charlie Sniffen, Fencrest Consulting
Alimet: Methionine and More, Production Response and Economics... Dr. Geoff Zanton and Dr. Lyle Rode, Novus International

Publication of this brochure was supported by Chr. Hansen, Inc.
How are Dairy Farm Breakeven Costs Affected by Forage Quality and Quantity?—The Penn State Extension dairy team worked with 50 farms who completed cash flow plans during 2013 and 2014. Corn silage starch digestibility, NDF digestibility, fecal starch, and MUN were tested twice on each farm along with feed management data collection. Examine how differences in forage feeding and production strategies, forage inventory considerations, and corn silage feeding practices impact breakeven costs. (70) Instructor: Tim Beck, Penn State

Using Grass in Dairy Diets—It’s Legal—One of Ev’s favorite topics, with research and hands-on demonstrations from work at Miner Institute. Topics that will be covered include: species selection, alfalfa-grass vs. all grass, challenges of alfalfa-grass in low fertility situations, harvest management, cutting height, fertilization, and ash. (100) Instructor: Ev Thomas, Oakpoint Agromonics

Raising Calves in Groups—Interest in rearing newborn calves to weaning in groups has increased over the past few years. With proper management group calf housing adopters are realizing labor savings, improved feed intake, and better calf socialization, but have also experienced some bottlenecks and learned a few lessons the hard way. Feeding methods, housing design, environmental control, and management will be discussed. (30) Instructors: Christine Rossiter-Burhans, Poulin Grain, Jud Heinrichs and Dan McFarland, Penn State

Assessing Fermentation Quality and Efficiency: Can We Estimate Dry Matter Loss?—For every ton of forage harvested from the fields, only 75% to 97% remains after fermentation and storage. Learn how to interpret and assess fermentation reports and discuss how fermentation report results and on-farm measures may provide insights to dry matter loss and profit opportunities. (50) Instructor: Mike Hutjens, University of Illinois

Continuing education credits for ARPAS members and veterinarians
ARPAS exams will be offered at 5 p.m. Nov. 12 and 2 p.m. Nov. 13.
Sign up by contacting Jeremy Holzner at jeremyh@assochq.org.
Morning Breakout Descriptions—November 13, 2014

Each participant can attend 2 workshops during the morning. Use these descriptions to rank your preferences on the registration form. Please mark at least 5; 1 = first choice. Due to space restrictions, workshops will be assigned in the order registrations are received. Numbers in parentheses indicate the participant limit for each workshop.

CORE► Navigating DHI Reports for Monitoring Dairy Herd Performance—DHI Reports provide a performance snapshot for a herd. Knowing how to identify key metrics and how those metrics are derived are essential to successfully integrating DHI report data into the information and monitoring you provide to your clients’ dairy operations. Case studies will engage participants in deciphering key DHI reports. (40) Instructors: Greg Roth, Penn State and Chris Canale, Cargill Animal Nutrition

CORE► Nutrition Information at the Hub of your Dairy Team—Brush up on the basics of positive practices for Dairy Advisory Teams. Learn how key feeding and nutrition information for the dairy can be at the hub of your team discussions and decision making in a case study format. (30) Instructor: Lisa Holden, Penn State

ADVANCED► The Skinny on Fats and Fatty Acids in Dairy Rations—Learn about the metabolism of fatty acids in the rumen and its effect on fatty acid availability, particularly related to troubleshooting low milk fat issues. Impact of fat supplements with different fatty acid profiles on cow performance as well as variability of fatty acids in forages and byproducts will be presented. (100) Instructor: Adam Lock, Michigan State

Managing Forages in Tower Silos—This session will detail proper moisture and particle size of forages destined for tower silos, pre-fill inspection of aging silos, filling tips and tactics, a review of fermentation’s impact on forage analysis, and feed out suggestions. Case studies will be presented to illustrate various challenges. (40) Instructor: Del Voight, Penn State

Using TTNDFD to Evaluate Forages and Fine-tune Dairy Rations—Wisconsin researchers have developed a lab assay to predict fiber digestibility of forages and rations for dairy cattle. Explore factors that affect fiber digestibility of feeds, how fiber digestibility affects milk production, and how dairy consultants are using TTNDFD values to formulate and evaluate dairy rations. Learn how TTNDFD values can be used with “FeedVal” and “Milk 2006” to price and evaluate forages. (45) Instructor: Dave Combs, University of Wisconsin-Madison

Forage Tools for High Forage Diets—Discussion will focus on the many old and new tools (i.e. forages) in a systems approach to producing and preserving very high quality forages based on your farm and soil resources. (100) Instructor: Tom Kilcer, Advanced Ag Systems

PDMP/Penn State Corn Silage Evaluation Program—The hybrid testing program provides performance information for selecting corn hybrids for silage production. Corn hybrids vary in many ways, namely in yield, nutrient content, NDF digestibility, and starch digestibility. Hear the results of this year’s trial and discuss corn silage related issues such as kinetics of NDF and starch digestibility. (40) Instructors: Greg Roth, Penn State and Chris Canale, Cargill Animal Nutrition

Good Sampling is an Essential Component of Diet Formulation—Sampling variation is often the major source of variation in forage composition within a farm. Proper sampling techniques and handling of lab data are essential to consistently formulate well-balanced diets. This workshop will discuss sampling variation and provide suggestions for sampling schedules and protocols. (100) Instructor: Bill Weiss, Ohio State

All Sugars Are Not Created Equally: Understanding the Role of Different Sugars in Ruminal Fermentation—All plants contain glucose, sucrose, and fructose. Lactose is found in condensed whey and whey protonate. Cottonseeds contain raffinose and soybeans contain stachyose. Learn how sugars are utilized in the rumen and how starches and sugars impact fiber digestibility. Discussion will include ration formulation guidelines and interactions between starches, sugars, and RDP. (50) Instructor: Stephen Emanuele, Quality Liquid Feeds

extension.psu.edu/dairynutrition

To be removed from this mailing list, contact Coleen Jones at cmj11@psu.edu.
Calculating and Evaluating Heifer Costs on Your Farm—Learn how a basic spreadsheet can help define costs of raising replacements and how you can use it to help improve efficiency and profitability. Efficiency analysis of heifer costs on 44 PA dairy farms will also be shared. Bring your own costs and questions to help simulate discussion. (35) Instructors: Heather Weeks and Jud Heinrichs, Penn State

Drought Stress and Corn Silage Quality: Is It Just a Matter of Rainfalls?—Drought stress can hinder productivity of dairy farms. Even though we cannot manage the climate, we can better prepare for the possibility of drought. Observations learned from previous drought episodes will be shared and management strategies to minimize adverse effects of drought stress on forage quality and inventories will be discussed. (100) Instructor: Gonzalo Ferreira, Virginia Tech

Dairy Outlook—A situation and outlook discussion of the current dairy markets, including domestic and international markets, feed markets, and agricultural policy. (100) Instructor: Jim Dunn, Penn State

Getting Comfortable with Amino Acid Balancing—Amino acids (AA) are required nutrients with numerous functions in metabolism. Providing AA in the right balance provides opportunities for minimizing the risk of cows experiencing AA deficiencies, for reducing the need for expensive protein supplements, and for optimizing health, production and dairy herd profitability. An interactive approach will be used to help ensure that all questions related to “why” and “how” to AA balance get answered. (30) Instructor: Chuck Schwab, Schwab Consulting

Subacute Ruminal Acidosis in Dairy Cows: The Connection between Feeding Behavior and Effective Fiber—This workshop will focus on defining subacute rumen acidosis (SARA) and the causes of depressed rumen pH. In addition, current SARA feeding behavior studies and mitigation methods will be explored. (30) Instructor: Alanna Kmicikewycz, Penn State

Promoting Dairy’s Economic, Environmental, and Social Success with Cow of the Future™—Dairy customers continuously seek proof that the dairy supply chain employs responsible practices that protect natural resources. Learn about voluntary efforts to measure, improve, and communicate the contributions of our industry to sustainable food systems. This session will include a live demonstration of Farm Smart™, a tool reporting economic and environmental outcomes to aid decision making on the farm. (100) Instructors: Juan Tricarico and Roberta Osborne, Innovation Center for U.S. Dairy

Exhibitor Information

Trade Show Hours
12 p.m. November 12 through 3 p.m. November 13
Showcase your products and services
Network with over 500 feed industry professionals, veterinarians, and consultants
Contact information published in exhibitor directory

Register by October 22 to be included in the exhibitor directory.

Use the form at the center of this brochure or visit extension.psu.edu/dairy-nutrition-workshop

Exhibit Options
Number of exhibits at each level is limited by the layout of the conference facility and will be accepted in the order registrations are received.

Gold: includes 2 complimentary registrations and exhibit space in the ballroom (10 ft wide x 8 ft deep). $1200
Silver: includes 1 complimentary registration and 8-ft table-top exhibit in the front hallway. $850
Bronze: includes 1 complimentary registration and 8-ft table-top exhibit in the back hallway. $500
Contributor: includes 1 complimentary registration and recognition, but no exhibit space. $400

Interested in specific sponsorship of a speaker or session for this or future events? Please contact Jud Heinrichs at ajh@psu.edu.

Conference Location—Holiday Inn, Grantville, PA

Located just off of I-81 at Exit 80

Holiday Inn
604 Station Road
Grantville, PA 17028
Phone: (717) 469-0661
www.stayholiday.com
$110/night (single or double room)
Online reservation code: PSN

Other Hotel Options
Comfort Suites
(717) 469-8181
Days Inn
(717) 469-0631
Hampton Inn
(717) 469-7689
MainStay Suites
(717) 469-1051

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Registration Form
You may register up to 4 people per form, please list the primary contact first.

1. Name: ___________________________________________  ARPAS: Y N
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Company: ___________________________________________
Address: ___________________________________________
City: __________________________ State: ___________ Zip: ___________
Phone: __________________________ Fax: ________________

Exhibitor Directory Listing (corporate mailing address and web site):
_________________________________________________________________

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Make checks payable to **Penn State**

TOTAL

Registration Accepted by Mail, Phone, Fax or Online
*If you want to pay by credit card, please register online.*
For online registration visit extension.psu.edu/dairy-nutrition-workshop
Online registrations can be paid by credit card or by check.

Return completed form and payment to:
Coleen Jones, 53 Lehigh Road, Craigsville, VA 24430
Phone: (540) 997-5809  Fax: (540) 997-5853  Email: cmj11@psu.edu

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