General Information

The Tri-State Dairy Nutrition Conference is a 26-year collaborative effort between The Ohio State University, Michigan State University, and Purdue University and the allied dairy industry. In 2016, 550 individuals attended the conference.

For more information about the 2017 conference, contact: Dr. Maurice Eastridge at (614) 688-3059, The Ohio State University; Dr. David Beede at (517) 432-5400, Michigan State University; or Dr. Shawn Donkin at (765) 494-4847, Purdue University.

Information about the program is also available online at: http://tristatedairy.org.

Student Competitions

Students may present at the Conference for a chance to win cash awards. All graduate and undergraduate students participating that do not place will receive a monetary award of $100. Graduate students present their research, and the top students may receive awards totalling up to $2,250. Undergraduates can present their research or provide a thorough review of a nutritional topic; up to $1,200 may be distributed among the top presenters. Undergraduate and graduate students may attend the Conference for free, and lodging will be made available for students. Pre-registration is required.

The guidelines for contestants can be found on the website. Abstracts by graduate students for the contest are due by Friday, March 3, 2017 and will be printed in the proceedings of the Tri-State Dairy Nutrition Conference. For more information, contact: Dr. Adam Lock at allock@msu.edu.

Sponsorship Information

There are numerous opportunities for your company or business to gain visibility at the Tri-State Dairy Nutrition Conference. Opportunities include being an exhibitor, general sponsor, hospitality sponsor, supporting the student presentation competition, and more. If you are interested in learning more about these sponsorship opportunities, contact Dr. Herb Bucholtz for more information at (517) 230-0120 or bucholtz@msu.edu. Exhibitor deadline is March 3, 2017.

Conference Objectives

To disseminate current information on the feeding of dairy cattle, primarily to individuals who provide nutritional advice to dairy farmers.

Intended Audience

Feed industry personnel, nutrition consultants, Extension personnel, university students, veterinarians, and interested dairy producers.

Registration Fee

$175 per person, includes refreshments during breaks and hospitality reception, one breakfast, and one copy of the Tri-State Dairy Nutrition Conference Proceedings (online or paper). For details concerning registration discounts for groups of 5 or more ($160/person), contact Michelle Milligan at (614) 292-7374 or email: milligan.4@osu.edu. Registration deadline is March 31, 2017. The cost for late registrations is $205, so don’t delay!
Accommodations

Please make room reservations directly with area hotels. Participants are encouraged to check-in prior to the start of the Conference.

The preferred hotels are:

**Hilton Fort Wayne at the Grand Wayne Center**
1020 South Calhoun Street  
P.O. Box 12049  
Fort Wayne, IN 46802  
(260) 420-1100

The Hilton Fort Wayne has a block of rooms reserved for the Conference. The rooms are $106 per night for single or double occupancy. Rooms at the Hilton must be reserved by **March 24, 2017** by 3:00 p.m. EST to receive the discounted rate. Rooms can be reserved by calling or visiting www.ftwayne.hilton.com and entering the group code: **TRI**.

**Courtyard by Marriott**  
(Enclosed walkway to the Grand Wayne)  
1150 South Harrison Street  
Fort Wayne, IN 46802  
866-704-6163

There are rooms reserved at the Courtyard by Marriott at the rate of $129 plus tax per night for single or double occupancy. Rooms must be reserved by **March 27, 2017** to receive the discounted rate.

Other hotels in the area include:

- **Hyatt Place**  
  111 W. Washington Center Rd.  
  (260) 471-8522

- **Hampton Inn & Suites**  
  5702 Challenger Parkway  
  (260) 489-0908

- **Holiday Inn Express**  
  5915 Ellison  
  (260) 227-5148

- **Hampton Inn & Suites**  
  8219 West Jefferson Blvd.  
  (260) 459-1999

The Grand Wayne Center and Hilton Fort Wayne are conveniently located in downtown Fort Wayne, only 7 miles from the Fort Wayne International Airport.

**ARPAS**  
The American Registry of Professional Animal Scientists

The ARPAS exam will be given at the Tri-State Dairy Nutrition Conference on April 18. If you are interested in taking the exam, please email the requested information listed below.

**PAS exam(s) available:**

1. Aquaculture  
2. Beef Cattle  
3. Companion  
4. Dairy Cattle  
5. Horses  
6. Laboratory Animals

7. Poultry  
8. Sheep & Goat  
9. Swine  
10. Meat Science  
11. Dairy Product Science  
12. Poultry Products

15 CEU’s available to ARPAS members for attending the Conference (4 credits for Diamond V pre-conference, 9 credits for Conference, 2 for Balchem post-conference).

The exam may be taken at the time listed below.  
**Other times available by appointment with Jeremy Holzner at ARPAS,**  
217/356-5390, **email: jeremyh@assochq.org**  
**Tuesday, April 18 - 11:00 AM**

More information about ARPAS exams and sample questions may be found at www.arpas.org. If you would like information on one of the College Board Certification exams, please contact us.

Please email the information below, which exams you desire to take and your preferred time to: jeremyh@assochq.org

(Name, Address, City, State, Zip, phone, and email address)
Monday, April 17

12:50 - 5:30  Undergraduate Student Presentations  (Harrison A)
             Graduate Student Presentations  (Harrison B, C)

2:00 - 5:30  Feed Analysis Workshop  
             (Harrison D, E)
             Pre-registration Required ($25/person)
             1. Cumberland Valley Analytical Services
             2. Dairy One
             3. Dairyland
             4. Rock River Laboratory
             5. Sure-Tech Labs

6:00  Dinner for Students, Feed Analysis Workshop Attendees, and Industry Personnel*
      (Anthony Wayne Ballroom)
      Pre-registration Required
      (Sponsored by Midwest ARPAS)
      *Free to presenting students and their advisors,
       $30/person otherwise.

Tuesday, April 18

PRE-CONFERENCE

8:00 - 12:00  Pre-Conference program hosted by Diamond V
              (Anthony Wayne Ballroom; registration required)

Theme: Dairy Research and Food Safety: Science to Drive Consumer Confidence

7:00  Breakfast

8:00 - 8:05  Setting the Stage - Introductions
             Dr. Bill Stone, Diamond V

8:05 - 8:40  The Changing Food Service Landscape: What it Means to You
             Mr. Randy Shields, McDonalds Multi-Store Owner/Operator

8:40 - 9:20  The Dairymen's Responsibility and the Battle for Safe Food
             Dr. Tom Edrington, Diamond V

9:20 - 10:00  Immunology and the Diamond V Experience
              Dr. Stuart Reeves, Diamond V/Embria Health Sciences

10:00 - 10:20  Break

10:20 - 11:00  Mitigating the Pathogenic Burden on the Farm Through Nutrition
                Dr. Devin Hanson, Diamond V

11:00 - 11:45  Tools to Raise a Herds Production Thermostat
                Dr. Bill Sanchez, Diamond V

Agenda

TRI-STATE DAIRY NUTRITION CONFERENCE

12:00 - 12:50  Registration Opens
                (Refreshments provided in Convention Hall)

Midwest ARPAS Luncheon Meeting
                (Harrison D/E)

12:50 - 1:00  Welcome to the 26th Tri-State Dairy Nutrition Conference
                Dr. Maurice Eastridge, The Ohio State University

1:00 - 1:40  Emerging Issue: Looking Ahead - Dairying in the Midwest and the USA in 2067
             Dr. Jack Britt, Jack H. Britt Consulting

Theme: Calf Feeding and Management
       Moderator: Mr. Glenn Smith, Perdue Agribusiness

1:40 - 2:10  Feeding Calves with Automatic Milk Feeders
              Dr. Robert James, Virginia Polytechnic Institute

Concurrent Sessions:

2:10 - 2:50  Improving Nutrient Digestibility in Young Heifer Calves
              Dr. Jim Quigley, Provimi North America

2:50 - 3:20  Break (refreshments provided)

Theme: Feeding Management (Session I)
       Moderator: Mr. Jim VanderSchaar, Purina Animal Nutrition

3:20 - 4:00  Feeding Cows in a Robotic Milking System
              Dr. Marcia Endres, University of Minnesota

4:00 - 4:30  Variation in Feed Costs Among Dairy Farms
              Mrs. Dianne Shoemaker, The Ohio State University

4:30 - 5:00  Agronomic and Nutritional Attributes of Reduced Lignin Alfalfa
              Dr. Mark Sule, The Ohio State University

5:00 - 5:20  Presentation by First-Place Graduate Student

5:20 - 5:35  Announcement of Undergraduate Student Presentation Awards
              Dr. Adam Lock, Michigan State University

5:35 - 7:00  Hospitality
              (Exhibit Hall, Refreshments Provided)
              (Dinner on Your Own)

6:30  Veterinarian Dinner
       Hosted by Elanco  (Harrison A)

Nutrition Consultant Dinner
       Hosted by Feedworks USA  (Harrison B)
       Topic: A Systematic Nutritional Approach to Improve Transition Cow Health
       Speaker: Dr. Michael Ballou, Department of Animal and Food Sciences, Texas Tech University

7:00 - 9:00  Extension Educator In-Service
              (Harrison DE)
**Wednesday, April 19**

7:00 - 7:45  **Industry Sponsored Hot Topic**  
*Hosted by ADM Animal Nutrition*  
(Anthony Wayne Ballroom A)  
(breakfast provided; registration required)  
Topic: What is the Latest Research Telling Us and Novel Technology for Heat Stress Relief in Dairy Cattle  
Speaker: Dr. Lance Baumgard, Iowa State University

7:45 - 8:30  **Visit with Exhibitors in Convention Hall**  
(coffee, milk, and snacks provided by ADM Animal Nutrition)

**Theme: Nutrient Availability and Metabolism**  
Moderator: Dr. Ken Zanzalari, Prince Agri Products, Inc.

8:30 - 9:00  **Update on Fatty Acid Digestion and Metabolism and Impacts on Milk Production**  
Dr. Adam Lock, Michigan State University

9:00 - 9:15  **Timely Topic: Can We Differentiate Supplemental Magnesium Sources Nutritionally?**  
Dr. David Beede, Michigan State University

**Concurrent Sessions:**

9:15 - 9:55  **Novel Concepts Regarding Calcium Homeostasis During the Transition Period**  
Dr. Laura Hernandez, University of Wisconsin-Madison  
(Moderator: Dr. Shawn Donkin, Purdue University  
(Harrison D/E)

**Making Milk Protein: The Single Most Important Ingredient is EVERYTHING**  
Dr. Lou Armentano, University of Wisconsin-Madison

9:55 - 10:25  **Break**  
(Refreshments provided)

**Theme: Feeding Management (Session II)**  
Moderator: Mr. Matt Kaufman, Papillon Agricultural Company

10:25 - 11:00  **Sugars in Rations for Dairy Cows**  
Dr. Mary Beth Hall, USDA Forage Center, Madison, WI  
(Sponsored by Westway Feed Products)

11:00 - 11:30  **A New Approach for Calculating Metabolizable Protein Requirements by Lactating Dairy Cows**  
Dr. Luis Morales, The Ohio State University

11:30 - 12:00  **“There is Nothing Like First-Hand Evidence” (Sherlock Holmes): The Cows Tell Us What’s Happening**  
Mr. Jim VanderSchuur, Purina Animal Nutrition

12:00 - 12:35  **DCAD: It’s Not Just for Dry Cows**  
Dr. Richard Erdman, University of Maryland

12:35  **Adjourn**  
(Refreshments Provided in Convention Hall)

**POST-CONFERENCE**

1:00 - 3:00  **Post-Conference hosted by Balchem**  
(Convention Hall; registration required)

**Theme: Transition Cow Biology**

**Goldilocks Meets Choline: Too Hot? Too Cold? Just Right?**  
Dr. Charlie Staples, Department of Animal Sciences, University of Florida

**The Dairy NRC: History, Process, and Progress**  
Dr. Richard Erdman, Department of Animal and Avian Sciences, University of Maryland

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**Tri-State Dairy Undergraduate Program**

**Monday, April 17**

12:30 - 5:30  Students may attend the Student Presentations  
(Harrison A, B, C)

Hotel check-in  
(Free lodging for students participating in contests - Required registration for conference and lodging)

6:00  ARPAS dinner

7:30  Evening social at Hilton Fort Wayne Hotel

**Tuesday, April 18**

8:00 - 9:00  Breakfast with Guest Speaker

9:00 - 9:30  Travel to Dairy Farm

9:30 - 11:15  Dairy Farm Visit

12:00 - 12:45  Lunch at Grand Wayne Center

12:50 - 6:00  Attend Conference and visit with Exhibitors
Please print clearly

Name:___________________________________________
Company: ________________________________________
Address: _________________________________________
City: _________________ State: ______ Zip:_____________
Phone:_______________Email: _______________________

Please check the box corresponding to your job affiliation:
☐ Feed Industry - sales/nutrition advisor
☐ Feed Industry - support staff/management/research
☐ Private Consultant
☐ Veterinarian
☐ Dairy Producer
☐ Campus/University Staff
☐ County Extension
☐ Government
☐ Student
(Undergraduate and graduate - Students registrations are free.)
FREE student lodging. (See registration area).

$_______ Registration ($175/person)  
(Registration includes one proceedings either online or paper)  
($30 late fee after March 31, 2017 - $205)

PROCEEDINGS PREFERENCE:  
Indicate: _____ online or _____ paper  
(For online proceedings, a password will be provided.)

$_______ Extra Paper Proceedings ($20/copy)

$_______ Online proceedings only ($20/person)

$_______ Feed Analysis Workshop  
($25/person)

$_______ April 17 Dinner ($30/person for non-students)  
Sponsored by: Midwest ARPAS

$_______ TOTAL

A $30 per registration charge will be added for late registrations and registrations received at the door.

Discounted registration fees are available for organizations with groups of 5 or more ($160/person), provided they are received from the same company, before the registration deadline, and received at the same time. Contact Michelle Milligan at (614) 292-7374 or milligan.4@osu.edu for details on group discounts or with questions.

One registration per form. Please list each registration on additional copies of this form.
Student Lodging

Undergraduate and graduate students may attend the Conference for free, and lodging will be complimentary for students. Pre-registration is required. The student room reservations deadline is March 18, 2017. There will be four students per double bed room.

Student Name: _____________________________________
University: ______________________ Email: ______________________
Graduate Student: ☐ Undergraduate Student: ☐
Presenting: Yes ☐ No ☐ Dinner on April 17: Yes ☐ No ☐
If undergraduate presenting: Literature Review ☐ Research ☐
Lodging Needed: April 17: Yes ☐ No ☐ April 18: Yes ☐ No ☐
Attending Undergraduate Program on April 18: Yes ☐ No ☐

Student Name: _____________________________________
University: ______________________ Email: ______________________
Graduate Student: ☐ Undergraduate Student: ☐
Presenting: Yes ☐ No ☐ Dinner on April 17: Yes ☐ No ☐
If undergraduate presenting: Literature Review ☐ Research ☐
Lodging Needed: April 17: Yes ☐ No ☐ April 18: Yes ☐ No ☐
Attending Undergraduate Program on April 18: Yes ☐ No ☐

Student Name: _____________________________________
University: ______________________ Email: ______________________
Graduate Student: ☐ Undergraduate Student: ☐
Presenting: Yes ☐ No ☐ Dinner on April 17: Yes ☐ No ☐
If undergraduate presenting: Literature Review ☐ Research ☐
Lodging Needed: April 17: Yes ☐ No ☐ April 18: Yes ☐ No ☐
Attending Undergraduate Program on April 18: Yes ☐ No ☐