General Information

The Tri-State Dairy Nutrition Conference is a 29-year collaborative effort between The Ohio State University, Michigan State University, and Purdue University and the allied dairy industry. In 2019, 465 individuals attended the conference.

For more information about the 2020 conference, contact: Dr. Maurice Eastridge at (614) 688-3059, The Ohio State University; Dr. Adam Lock at (517) 802-8124, Michigan State University; or Dr. Jackie Boerman at (765) 496-6290, 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 awards. All graduate and undergraduate students participating that do not place will receive an Amazon gift card 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 13, 2020 and will be printed in the proceedings of the Tri-State Dairy Nutrition Conference. Undergraduate submissions are due by Friday, April 3, 2020. 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 6, 2020.

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

$185 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 ($170/person), contact Michelle Milligan at (614) 292-7374 or email: milligan.4@osu.edu. Registration deadline is April 10, 2020. The cost for late registrations is $215, 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 $118 plus tax per night for single or double occupancy. Rooms at the Hilton must be reserved by **March 30, 2020** by 3:00 p.m. EST to receive the discounted rate. Reservations can be made by calling 1-800-HILTONS. To reserve online: [https://www.hilton.com/en/hi/groups/personalized/F/FWAFHHF-TRI-20200420/index.jhtml?WT.mc_id=POG](https://www.hilton.com/en/hi/groups/personalized/F/FWAFHHF-TRI-20200420/index.jhtml?WT.mc_id=POG)

**Courtyard by Marriott**  
(enclosed walkway to the Grand Wayne)  
1150 South Harrison Street  
Fort Wayne, IN 46802  
1-800-228-9290

There are rooms reserved at the Courtyard by Marriott at the rate of $138 plus tax per night for single or double occupancy. Rooms must be reserved by **March 26, 2020** to receive the discounted rate. Reservations can be made online: [https://book.passkey.com/event/49999402/owner/10902288/home](https://book.passkey.com/event/49999402/owner/10902288/home)

**Hampton Inn & Suites Fort Wayne Downtown**  
223 West Jefferson Boulevard  
Fort Wayne, IN 46802  
(260) 427-6915

The Hampton Inn & Suites by Hilton has a block of rooms reserved for the Conference. The rooms are $145 plus tax per night for single or double occupancy. Rooms at the Hilton must be reserved by **March 26, 2020** by 3:00 p.m. EST to receive the discounted rate. Reservations can be made online: [https://secure3.hilton.com/en_US/hp/reservation/book.htm?execution=e1s1](https://secure3.hilton.com/en_US/hp/reservation/book.htm?execution=e1s1)

Other hotels in the area include:

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

- **Holiday Inn Express & Suites**  
  5915 Ellison Road  
  (844) 232-0907

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

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

**Driving Directions**

**From the South**
Take I-69 North to Exit 102, Jefferson Blvd; continue on Jefferson Blvd. until you reach downtown Fort Wayne, then move into the far left lane. The Grand Wayne Center is on your left, across from The Embassy Theater. Drive one more block to the Jefferson Blvd. entrance of the Parking Garage. The skywalk bridge is located on the third floor of the garage.

**From the Northwest**
Take U.S. 30 East until you reach U.S. 27 South (Northrop St./Clinton); turn right and travel directly into downtown Fort Wayne; turn RIGHT onto Washington Blvd, and move into the left lane. Proceed one block and turn LEFT onto Calhoun Street. The Parking Garage entrance is on your left, across from the Hilton Hotel. The skywalk bridge is located on the third floor of the garage.

**From the North**
Take I-69 South to Exit 112, using the Coldwater Road South ramp. Travel south on Coldwater Road until it merges with Clinton Street. Continue on Clinton Street into downtown Fort Wayne; turn RIGHT onto Washington Blvd, and move into the left lane. Proceed one block and turn LEFT onto Calhoun Street. The Parking Garage entrance is on your left, across from the Hilton Hotel. The skywalk bridge is located on the third floor of the garage.

**From the East via SR 14 or US 30 (930 East)**
Follow highway West through New Haven. Approaching Fort Wayne – route is named Washington Blvd. Follow Washington Blvd. to downtown Fort Wayne. Turn left onto Calhoun Street. Park in Civic Center Parking Garage, turn left into garage mid-block. Grand Wayne Center is attached to Hilton Hotel. Parking Garage level 3 connects by skywalk to Hotel and Grand Wayne Center level 2.
**Monday, April 20**

1:30 - 5:30  **Undergraduate Student Presentations**  
(Jefferson C)  
**Graduate Student Presentations**  
(Jefferson A and B)

2:00 - 5:30  **Feeding and Management Strategies for Robotic Milking Workshop**  
(Harrison CD)  
*Pre-registration Required* ($25/person)

Cow Behavior in Automatic Milking Systems  
Mr. Joep Driessen, CowSignals, Bergharen, The Netherlands  
*There will also be representatives from DeLaval, GEA, and Lely*

2:00 - 5:30  **Balchem Mini-Symposium**  
*Theme: Methyl Donors and 1-C Metabolism in Dairy Cattle*  
(Additional information on website)

5:30 - 6:30  **Dinner for Students, Workshop and Symposium Attendees, and Industry Personnel**  
(Anthony Wayne Ballroom)  
*Pre-registration Required*  
(Sponsored by Midwest ARPAS and the Tri-State Dairy Nutrition Conference)

**Announcement of Undergraduate Student Presentation Awards**  
Dr. Adam Lock, Michigan State University

*Free to presenting students and their advisors, and Balchem Symposium attendees  
($35/person otherwise).*

**Tuesday, April 21**

**PRE-CONFERENCE**

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

**Theme: Enhancing the Dairy Cow Microbiome - What's the Next Step?**

7:00 - 8:00  **Breakfast**

8:00 - 8:45  **It's Not Just About the Rumen**  
Dr. Lance Baumgard, Iowa State University

8:45 - 9:30  **Creating the Perfect Microbiome for the Dairy Cow**  
Dr. Richard Murphy, Alltech

9:30 - 10:00  **Break**

10:00 - 10:35  **What Impact Do Mycotoxins Have on Gut Health**  
Dr. Alexander Weaver, Alltech

10:35 - 11:15  **How Does Rumen Health Impact Gut Integrity**  
Dr. Karl Dawson, Alltech

11:15 - 11:50  **Changing the Game with Analytics**  
Dr. Jeffrey Bewley, Alltech

11:50 - 12:00  **Closing**  
Dan Weiland, Alltech

**TRI-STATE DAIRY NUTRITION CONFERENCE**

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

12:50 - 1:00  **Midwest ARPAS Luncheon Meeting**  
(Harrison DE)

1:00 - 2:00  **Welcome to the 29th Tri-State Dairy Nutrition Conference**  
Dr. Maurice Eastridge, The Ohio State University

**Emerging Issue: PeopleSignals - Becoming More Astute, Proactive, Dairy Animal Advocates**  
Mr. Joep Driessen, CowSignals, Bergharen, The Netherlands

**Theme: Health and Management**  
Moderator: Dr. Brad Oldick, Purina Animal Nutrition

2:00 - 2:40  **Minimizing Inflammation in Transition Cows**  
Dr. Barry Bradford, Michigan State University

**Concurrent Session:**

2:50 - 3:30  **What We Have Learned About Feeding Management with Cows in Automatic Milking Systems**  
Mr. Joep Driessen, CowSignals, Bergharen, The Netherlands

**Moderator: Dr. Jackie Boerman, Purdue University**

**Influence of Ketosis on Immune Status of the Transition Dairy Cow**  
Dr. Turner Swartz, Michigan State University

3:30 - 4:00  **Break**  
(refreshments provided)

4:00 - 4:40  **Effects of Feeding Methods and Housing of Pre-Weaned Heifers on Feeding Behavior**  
Dr. Emily Miller-Cushon, University of Florida

4:40 - 5:10  **Impact of Subclinical Hypocalcemia on Dairy Cattle**  
Dr. Rafael C. Neves, Purdue University

5:10 - 5:20  **Announcement of Graduate Student Presentation Awards**  
Dr. Jackie Boerman, Purdue University

5:20 - 5:35  **Presentation by First-Place Ph.D. Graduate Student**

5:35 - 7:00  **Hospitality**  
(Dinner on Your Own)

6:30  **Veterinarian Dinner**  
Hosted by Diamond V  
(Harrison A)

6:30 - 8:30  **Nutrition Consultant Dinner**  
Hosted by Feed Components  
(Harrison B)

6:30 - 8:30  **Extension Educator In-Service**  
(Harrison DE)

*(Continued on next page)*
Wednesday, April 22

7:00 - 7:45  Industry Sponsored Hot Topic  
Hosted by Ajinomoto Animal Nutrition NA, Inc.  
(Anthony Wayne Ballroom A)  
(breakfast provided; registration required)

Why Should I Care About Amino Acids?  
Dr. Mark Hanigan, Virginia Polytechnic Institute

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

Theme: Feed and Calf Management  
Moderator: Mr. Bryan Horn, Fermented Nutrition Corporation

8:30 - 9:00  Controlling Variation in Feedstuffs  
Mr. Kyle Taysom, Dairyland Laboratories, Inc.

9:00 - 9:40  Storage Practices to Improve Forage Quality and Reduce Shrink  
Dr. Adegbola Adesogan, University of Florida

Concurrent Session:

9:50 - 10:30  Variability in MUN Data  
Dr. Kristan Reed, Cornell University  
Moderator: Dr. Jackie Boerman, Purdue University

Recent Research on Rumen Development in Dairy Calves  
Dr. Taylor Yohe, University of Guelph

10:30 - 11:00  Break (Refreshments Provided)

11:00 - 11:35  A Tale of Two Fibers, Optimizing peNDF and uNDF  
Dr. Rick Grant, Miner Institute

11:35 - 12:05  Nutrient Management from Field to Manure  
Dr. Chanhee Lee, The Ohio State University

12:05 - 12:35  Update on Energy Prediction Equations  
Dr. Bill Weiss, The Ohio State University

12:35  Adjourn (Lunch Provided in Convention Hall)

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Tri-State Dairy Undergraduate Program

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Monday, April 20

1:30 - 5:30  Attend and/or participate in Student Competition  
(Jefferson C)  
Hotel check-in  
(Free lodging for students - Required registration for conference and lodging)

5:30 - 6:30  Dinner hosted by ARPAS and the Tri-State Dairy Nutrition Conference  
(Anthony Wayne Ballroom)

7:00  Evening social

Tuesday, April 21

8:00 - 9:00  Breakfast with Guest Speaker

9:00 - 11:30  Tour of dairy farm or processing facility

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

12:50 - 5:45  Attend Conference and visit with Exhibitors

1Application required. Additional information and form available at:  
https://www.tristatedairy.org/undergraduate-program

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ARPAS  
The American Registry of Professional Animal Scientists

The ARPAS exam will be given at the Tri-State Dairy Nutrition Conference on April 21. If you are interested in taking the exam, please email the requested information listed below.

PAS exam(s) available:

1. Aquaculture  7. Poultry
2. Beef Cattle  8. Sheep & Goat
3. Companion  9. Swine
5. Horses  11. Dairy Product Science
6. Laboratory Animals  12. Poultry Products

14 CEU’s available to ARPAS members for attending the Conference  
(2 credits for Balchem Mini-Symposium, 3 credits for Alltech Pre-Conference, and 9 credits for 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 21 - 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)
2020 Tri-State Dairy Nutrition Conference Registration Form

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 on reverse side).

$_______ Registration ($185/person)
(Registration includes one proceedings either online or paper.)
($30 late fee after April 10, 2020 - $215)

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

$_______ Extra Paper Proceedings ($20/copy)

$_______ Online proceedings only ($20/person)

$_______ Feeding and Management Strategies for Robotic Milking Workshop ($25/person)

$_______ April 20 Dinner ($35/person for non-students)
Sponsored by: ARPAS and the Tri-State Dairy Nutrition Conference

$_______ 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 ($170/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.

COMPLIMENTARY PROGRAMS
(Registration Required)

Yes ☐ No ☐ Attending Mini-Symposium
☐ hosted by Balchem

Yes ☐ No ☐ Attending Pre-Conference
☐ hosted by Alltech

Yes ☐ No ☐ Attending Industry Sponsored Hot Topic Breakfast
☐ hosted by Ajinomoto Animal Nutrition NA, Inc.

Dinners at 6:30 PM on Tuesday, April 21:
Yes ☐ No ☐ Attending Veterinarian Dinner
☐ hosted by Diamond V

Yes ☐ No ☐ Attending Nutrition Consultant Dinner
☐ hosted by Feed Components

Yes ☐ No ☐ Attending Extension Educator In-Service


Make checks payable to:

Tri-State Dairy Nutrition Conference

Mail registration form and fee to:
Tri-State Dairy Nutrition Conference
c/o Michelle Milligan
221 Animal Science Building, 2029 Fyffe Court
Columbus, OH 43210

OR

Register online: http://tristatedairy.org
**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 20, 2020**. There will be four students per double bed room.

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1For students participating in the Undergraduate Program, an application is required. Additional information and form available at: [https://www.tristatedairy.org/undergraduate-program](https://www.tristatedairy.org/undergraduate-program)