



2019 Tri-State Dairy Nutrition Conference

April 22-24, 2019
Grand Wayne Center
Fort Wayne, Indiana

*The Tri-State Dairy Nutrition Conference is organized by
leadership of Extension and the Department of Animal Sciences
at:*

*Michigan State University
Purdue University
The Ohio State University
and
allied industry personnel*

Website: <http://tristatedairy.org>

General Information

The Tri-State Dairy Nutrition Conference is a 28-year collaborative effort between The Ohio State University, Michigan State University, and Purdue University and the allied dairy industry. In 2018, 529 individuals attended the conference.

For more information about the 2019 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 15, 2019** 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 1, 2019**.

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 **April 7, 2019**. 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 \$108 plus tax per night for single or double occupancy. Rooms at the Hilton must be reserved by **April 1, 2019** 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-20190422/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 \$135 plus tax per night for single or double occupancy. Rooms must be reserved by **March 28, 2019** to receive the discounted rate. Reservations can be made online: <https://book.passkey.com/e/49768565>.

Other hotels in the area include:

Hyatt Place

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

Holiday Inn Express

5915 Ellison Road
(844) 232-0907

Hampton Inn & Suites

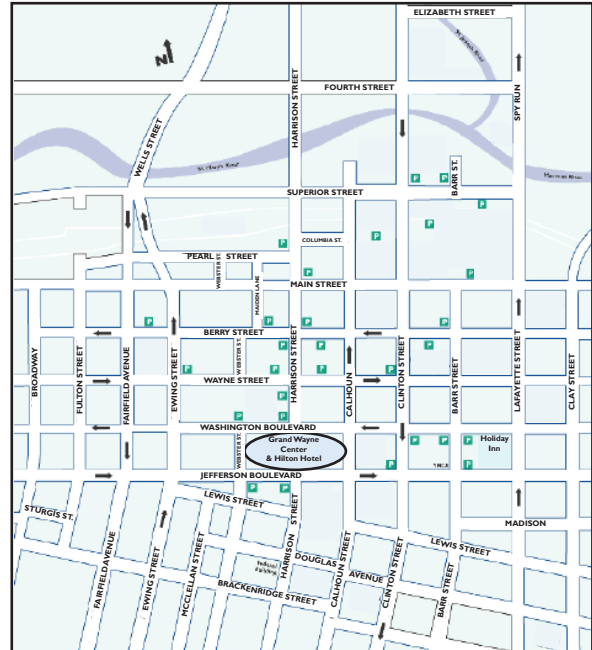
5702 Challenger Parkway
(260) 489-0908

Hampton Inn & Suites

8219 West Jefferson Blvd.
(260) 459-1999

Grand Wayne Center
120 West Jefferson Boulevard
Fort Wayne, IN 46802
(260) 426-4100
<http://www.grandwayne.com>

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 23. 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 |
| 4. Dairy Cattle | 10. Meat Science |
| 5. Horses | 11. Dairy Product Science |
| 6. Laboratory Animals | 12. Poultry Products |

16 CEU's available to ARPAS members for attending the Conference (3 credits for Feed Sampling Workshop, 3 credits for Elanco Animal Health pre-conference, 8 credits for Conference (4 for each day).

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@assoqh.org

Tuesday, April 23 - 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@assoqh.org

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



Agenda

Monday, April 22

- 1:30 - 5:30 **Undergraduate Student Presentations**
(Jefferson C)
Graduate Student Presentations
(Jefferson A and B)
- 2:00 - 5:30 **Feed Sampling Workshop**
(Harrison CD) 
Pre-registration Required (\$75/person)
- 5:30 - 6:30 **Dinner for Students, Feed Sampling Workshop 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, \$35/person otherwise.

Concurrent Sessions:

- 2:35 - 3:15 **Taking Care of Business**
Dr. David Kohl, Virginia Tech University
- Moderator: Dr. Jackie Boerman, Purdue University*
- Optimizing the Role of Starch as an Energy Source for Dairy Cows**
Dr. Luiz Ferraretto, University of Florida
- 3:15 - 3:45 **Break** (refreshments provided)
- 3:45 - 4:25 **Prevention, Assessment, and Mitigation of Mycotoxicosis in Dairy Cattle**
Dr. Duarte Diaz, University of Arizona
- 4:25 - 5:05 **Vitamin Supplementation for Lactating Dairy Cows**
Dr. Mark A. Engstrom, DSM
- 5:05 - 5:20 **Announcement of Graduate Student Presentation Awards**
Dr. Adam Lock, Michigan State 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 Micronutrients
(Harrison A)
- Nutrition Consultant Dinner**
Hosted by Micro Bio-Systems
(Harrison B)
- 7:00 - 9:00 **Extension Educator In-Service**
(Harrison DE)

Tuesday, April 23

PRE-CONFERENCE



- 8:00 - 12:00 **Pre-Conference program hosted by Elanco Animal Health**
(Anthony Wayne Ballroom; registration required; 3 CEU's)

Theme: Calves and Heifers - Investing in the Future

Agenda: Check Tri-State Dairy Conference website.

TRI-STATE DAIRY NUTRITION CONFERENCE

- 12:00 - 12:50 **Registration**
(Refreshments provided in Convention Hall)
- Midwest ARPAS Luncheon Meeting**
(Harrison DE)
- 12:50 - 1:00 **Welcome to the 28th Tri-State Dairy Nutrition Conference**
Dr. Maurice Eastridge, The Ohio State University
- 1:00 - 1:45 **Emerging Issue: Economic Outlook for the Dairy Industry**
Dr. David Kohl, Virginia Tech University

Theme: Management of Cows and Farms

Moderator: Dr. Luis Moraes, The Ohio State University

- 1:45 - 2:25 **Cooling Dairy Cows: Effects on Behavior, Physiology, and Production**
Dr. Cassandra Tucker, University of California-Davis

Wednesday, April 24

- 7:00 - 7:45 **Industry Sponsored Hot Topic**
Hosted by Enogen Feed from Syngenta
(Anthony Wayne Ballroom A)
(breakfast provided; registration required)
Topic: New Corn Silage Hybrids
Speaker: Dr. John Goeser, Rock River Laboratories, Watertown, WI
- 
- 7:45 - 8:30 **Visit with Exhibitors in Convention Hall**
(coffee, milk, and snacks provided by Syngenta)

(Continued on next page)

Agenda

Theme: Transition Cows

Moderator: Dr. Dan Dickerhoof, Eastern Buckeye Veterinary Clinic

- 8:30 - 9:00 **Designing the Group Maternity Pen: Insights from the Cow's Perspective**
Katherine Creutzinger and Dr. Katy Proudfoot, The Ohio State University
- 9:00 - 9:30 **Lipid Mobilization and Inflammation During the Transition Period**
Dr. Andres Contreras, Michigan State University
- 9:30 - 10:00 **Quantifying Protein Mobilization During the Transition Period**
Dr. Jackie Boerman, Purdue University
- 10:00 - 10:30 **Feeding Blends of Fatty Acids for Transition Cows**
Dr. Adam Lock, Michigan State University

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

Theme: Energy Efficiency

Moderator: Mr. Steve Sweet, Dairyman's Advantage

- 11:00 - 11:30 **Contemplating the Energetic Consequences of Bovine Mastitis**
Dr. Benjamin Enger, The Ohio State University
- 11:30 - 12:00 **Breeding for Feed Efficiency**
Dr. Luiz Brito, Purdue University
- 12:00 - 12:30 **Interaction Between Protein and Energy Nutrition**
Dr. Bill Weiss, The Ohio State University
- 12:30 **Adjourn** (Lunch Provided in Convention Hall)

Tri-State Dairy Undergraduate Program

Monday, April 22

- 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 23

- 8:00 - 9:00 Breakfast with Guest Speaker
- 9:00 - 11:30 TBA
- 12:00 - 12:45 Lunch at Grand Wayne Center
- 12:50 - 5:45 Attend Conference and Visit with Exhibitors

2019 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 (\$175/person)
(Registration includes one proceedings either online or paper.)
(\$30 late fee after April 7, 2019 - \$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 Sampling Workshop
(\$75/person)

\$ _____ April 22 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 (\$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.

COMPLIMENTARY PROGRAMS (Registration Required)

Yes Attending Pre-Conference
No hosted by Elanco Animal Health

Yes Attending Industry Sponsored Hot Topic Breakfast
No hosted by Syngenta Crop Protection, LLC

Yes Attending Veterinarian Dinner
No hosted by Micronutrients

Yes Attending Nutrition Consultant Dinner
No hosted by Micro Bio-Systems

Yes Attending Extension Educator In-Service
No

Student Undergraduate Program and Lodging on the reverse side.

Registration Deadline: April 7, 2019.

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>

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 15, 2019**. There will be four students per double bed room.

Student Name: _____

University: _____ **Email:** _____

Graduate Student: Undergraduate Student:

Presenting: Yes No Dinner on April 22: Yes No

If undergraduate presenting: Literature Review Research

Lodging Needed: April 22: Yes No April 23: Yes No

Attending Undergraduate Program on April 23: Yes No

Student Name: _____

University: _____ **Email:** _____

Graduate Student: Undergraduate Student:

Presenting: Yes No Dinner on April 22: Yes No

If undergraduate presenting: Literature Review Research

Lodging Needed: April 22: Yes No April 23: Yes No

Attending Undergraduate Program on April 23: Yes No

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Lodging Needed: April 22: Yes No April 23: Yes No

Attending Undergraduate Program on April 23: Yes No

Student Name: _____

University: _____ **Email:** _____

Graduate Student: Undergraduate Student:

Presenting: Yes No Dinner on April 22: Yes No

If undergraduate presenting: Literature Review Research

Lodging Needed: April 22: Yes No April 23: Yes No

Attending Undergraduate Program on April 23: Yes No

28th
Year



Website: <http://tristatedairy.org>