2019 ADSA® Annual Meeting

The 2019 ADSA® Annual Meeting in Cincinnati, Ohio, is again set to be the most comprehensive dairy science meeting in the world. The overall program committee has worked diligently to develop a scientific program that will provide researchers, educators, extension professionals, students, and industry representatives a great venue to discuss the latest ideas and findings in dairy science from all over the world.

The 2019 ADSA meeting will feature more than 60 scientific sessions, with more than 1,100 abstracts for oral and poster presentations, and 33 symposia, platform sessions, and workshops. We thank everyone for a great response to the call for symposia and abstracts, and we especially thank the volunteers who make up the program committees for their great work on planning symposia and reviewing all those abstracts!

The meeting begins on Sunday, June 23, with scientific sessions from Monday morning (June 24) through Wednesday afternoon (June 26). Preconference events that will take place Sunday (June 24) include the ADSA Graduate Student Grant Writing Workshop, Teaching Workshop, Dairy Records

Continued
Analysis Workshop, NANP Nutrition Models Workshop, the Late-Breaking Original Research Session, the David M. Barbano Recognition Symposium, and an ADSA mini-symposium related to the 34th Discover℠ Conference on amino acid and energy interactions. This meeting will be a great one for our geneticists, as we work with meeting partner Interbull for two shared symposia on Monday: (1) Ten Years of Genomic Selection, and (2) Data Pipelines for Implementation of Genomic Evaluation of Novel Traits. The main conference also will include the following highlights: Teagasc-Moorepark Symposium on animal diet and dairy product quality, Animal Health Symposium on transition cow calcium homeostasis, Ruminant Nutrition Symposiums on using remote sensing to improve forage production and on methyl donors for liver health in transition cows, Management Symposium on using artificial intelligence on dairy farms, Reproduction Symposium on the etiology of pregnancy failure, Lactation Biology Symposium on new approaches for research, and a symposium you won’t want to miss titled “Don’t Have a Cow—Plant Proteins, Bovine Protein Expression, and Milk Humanization.” And there is much more!

This year we will continue the afternoon ice cream breaks in the exhibit hall, will again have an earlier and shorter opening session to allow more time for networking, and look forward to the Student Affiliate Division small-group mentoring sessions with ADSA professionals. There will be a graduate student mixer designed to connect graduate students with professionals from industry and academia.

Cincinnati is a great city with easy access, interesting history, beautiful views along the Ohio River, and a variety of convenient hotels, dining options, and attractions. The home of the Wright Brothers and museums on the history of flight are only an hour away in Dayton. So, along with a top-notch scientific program, we promise that there will be something for everyone to enjoy. We look forward to seeing each and every one of you, and especially our international friends, at the 2019 ADSA Annual Meeting in Cincinnati, Ohio!

Mike VandeHaar
Overall Program Chair
2019 ADSA Annual Meeting Symposia

Sunday, June 23

**Full day**
- Workshop: NANP Nutrition Models
- Workshop: Records Management (morning and afternoon sessions)

**Afternoon**
- Teaching Workshop: Planning, Implementing, and Evaluating Classroom Discussion
- Late-Breaking Original Research Session
- David M. Barbano Recognition Symposium
- 34th ADSA Discover™ Conference Mini Symposium
- ADSA GSD Symposium: Grant Writing

Monday, June 24

**Morning**
- Small Ruminant Platform Session: Omics Application in Small Ruminants
- Joint ADSA/Interbull Symposium: Breeding and Genetics: Ten Years of Genomic Selection
- CSAS Symposium: From Data to Decisions—The Next Step for Technology in Dairy Production
- Ruminant Nutrition: Mycotoxins—Recognizing Their Presence and Dealing with Them in Ruminant Nutrition
- Dairy Foods: Advances in Spore Control throughout the US Dairy Value Chain

**Afternoon**
- Joint ADSA/Interbull Symposium: Breeding and Genetics: Data Pipelines for Implementation of Genomic Evaluation of Novel Traits
- Forages and Pastures: Silage Conservation Practices and Management—Effects on Forage Quality, Farm Profitability, and Feed Efficiency
- Ruminant Nutrition Platform Session: Probiotics, Prebiotics, and Postbiotics:
- Reproduction: The Etiology of Pregnancy Failure in Cattle—The When and Why
- MILK Symposium: Research Opportunities with Robotic Milking Systems
- Teaching/Undergraduate and Graduate Education: Strategies for Assessing Student Learning

Tuesday, June 25

**Full day**
- Lactation Biology Symposium: Refining the Old to Answer the New

Wednesday, June 26

**Morning**
- Joint Reproduction/Animal Health Symposium: Transition Cow Calcium Homeostasis—Health Effects of Hypocalcemia and Strategies for Prevention
- Production, Management, and the Environment: Advancing Artificial Intelligence on Dairy Farms
- Milk Protein and Enzymes: Don’t Have a Cow—Plant Proteins, Bovine Protein Expression, and Milk Humanization

**Afternoon**
- Dairy Foods: Recent Advances in Dairy Food Safety Research
- Reproduction Platform Session: Transition Cow Health and Reproduction
- Production, Management, and the Environment: Profitability and Sustainability
- ADSA Southern Section Symposium: Dairy Cattle Longevity Revisited—Trends, Economics, and Opportunities
- Growth and Development Symposium: Maternal Factors that Influence the Neonate: An Update on Fetal Programming

Wednesday, June 26, and Thursday, June 27

**Thursday, June 27**
- Workshop: Mixed Models (all day Wednesday and Thursday morning; additional fee required)
Put the LDHM e-Book to Work for You

Do you have your copy of *Large Dairy Herd Management* (LDHM; 3rd ed.)? Whether you are a student or an instructor, a producer or other dairy professional, or a person just entering the field or a seasoned veteran, LDHM is an invaluable resource for you.

Past editions of LDHM have been among the most widely used dairy information resources in the world. This edition was developed to help meet the growing need of dairy farmers, service professionals, and students from around the world for current, science-based dairy management information. It uses modern technology to bring peer-reviewed dairy science and management information to users in a readily accessible, easy-to-use format. It is fully updated, including numerous color figures and videos in separate metric and imperial versions. The book is available in both PDF and fixed-layout ePub formats. With purchase of the e-book, both metric and imperial versions in both file formats may be downloaded.

The e-book includes 97 chapters in 15 sections. The sections and section editors are as follows:

- **Section 1: Building Sustainability and Capacity**—David Beede, Michigan State University
- **Section 2: Large Herd Systems**—Steven P. Washburn, North Carolina State University
- **Section 3: Facilities and Environment**—Joseph M. Zulovich, University of Missouri, and Joseph P. Harner, Kansas State University
- **Section 4: Milk Markets and Marketing**—Normand R. St-Pierre, The Ohio State University/Perdue AgriBusiness
- **Section 5: Genetic Selection Programs and Breeding Strategies**—Kent A. Weigel, University of Wisconsin–Madison
- **Section 6: Calves and Replacements**—Robert E. James, Virginia Tech
- **Section 7: Reproduction and Reproductive Management**—William W. Thatcher, University of Florida
- **Section 8: Nutrition and Nutritional Management**—Richard J. Grant and Heather M. Dann, William H. Miner Agricultural Research Institute
- **Section 9: Lactation and Milking Systems**—Rupert M. Bruckmaier, University of Bern
- **Section 10: Mastitis and Milk Quality**—Joseph S. Hogan, The Ohio State University/OARDC
- **Section 11: Animal and Herd Welfare**—Trevor DeVries, University of Guelph
- **Section 12: Herd Health**—Carlos A. Risco, University of Florida
- **Section 13: Business, Economic Analysis, and Decision-Making**—Albert De Vries, University of Florida
- **Section 14: Effectively Managing Farm Employees**—Stanley J. Moore and Phillip T. Durst, Michigan State University
- **Section 15: Precision Management Technologies**—Jeffrey M. Bewley


*Large Dairy Herd Management* is available for purchase at student and professional (member and nonmember) rates exclusively from ADSA. The discounted member price is another of our many member benefits.

**Professionals**
- ADSA members $125.00
- Nonmembers $195.00

**Students**
- Undergrad and graduate $62.50

As a way to make the information even more readily available, individual sections of the e-book can now be purchased. The ADSA Foundation made this change to allow purchase of portions of the book for dairy science classes and for professionals with a particular focus. Individual sections can be purchased at $15 per section for ADSA members and $20 per section for nonmembers.

To purchase the full e-book or individual sections, visit the LDHM website, click on “Purchase,” follow the links that will take you through the FASS e-commerce area to complete the purchase.

Kenneth E. Olson
Letter from the President

As spring advances, we get closer to our annual meeting in Cincinnati, and I look forward to meeting old and new friends and colleagues as we get together for an exceptional, extended—we’ve gone to a format of three and a half days—gathering of science and networking (and some socializing) in the Queen City. I encourage you to arrive early on Sunday to take full advantage of the workshops and mini-symposia as well as the late-breaking abstract session. There will also be overlap with the Interbull meeting on Sunday, and, of course, the opening session.

By now, many of you have been invited to participate in the graduate student and undergraduate mentoring opportunities, including the GSD Mix and Mingle on Tuesday evening and the SAD mentoring sessions, which offer a great chance to interact with the future of our association. It also offers the opportunity to see our science from a new perspective. Consider participating in one or both of these events and show your support for our student members. Details of the program and other events are available on the Annual Meeting website.

The awards program Monday evening allows us the opportunity to recognize some of the best of our discipline across all stages of their careers. But long before the winners are recognized, a significant amount of effort is expended by nominators, selection committee members, and of course our staff to provide a great pool of nominees, determine a winner, and develop a smooth program that moves at a brisk but respectful pace. I thank the colleagues who identified the nominees, the committee members who deliberate and decide on winners, and the FASS staff who coordinate all the behind-the-scenes activities associated with a great evening of recognition.

Speaking of recognition, the Program Committee of Mike VandeHaar (overall program chair), Zey Ustunol, Mike Brouk, Paul Kindstedt, Emma Wall, and Mike Miller deserve another thank-you for all their efforts so far in putting the sessions together for a great meeting. The other committees are also hard at work reviewing, revising, and accepting the more than 1,100 abstracts to fill out the sessions. Once the program is complete, FASS staff, particularly Cara Tharp, and the ADSA executive director, Peter Studney, will gear up their efforts to complete the logistics for a seamless delivery of a great meeting; be sure to add a personal thank-you when you see those folks on-site.

Before we get to the meeting, we will have the opportunity to set the course of the association for the next few years with our election of new board members and a vice president. We have an excellent slate of candidates, and I thank them for stepping up to support ADSA with their time and talent. I cannot emphasize enough the importance of strong participation in the election. It’s important for your voice to be heard by exercising your right to vote. Please look for your ballot in your email and return it promptly.

I look forward to seeing you in Cincinnati!

Geoff Dahl
ADSA President
From the JDS Editor-in-Chief

Thank you for the opportunity to serve as editor-in-chief of the Journal of Dairy Science (JDS). We published 11,518 JDS pages in 2018, and JDS papers represented 10% of the articles in the Agriculture, Dairy, and Animal Science journal category. I believe that this continued growth can be explained by our excellent author experience and outstanding content. Credit for our excellent author experience goes to our section editors and reviewers, who efficiently evaluate and make decisions on the submissions, as well as our excellent staff at FASS, who handle technical editing and day-to-day journal operations. I also recognize Elsevier, whose outstanding platform provides a tremendous post-publication experience for our authors and readers.

We have no plans to rest on our laurels and will continue to make improvements to the journal. For example, in the coming year we will be instituting reporting guidelines for all submitted articles. Reporting guidelines help to ensure complete and accurate reporting of a study, which contributes to reproducibility and allows for critical appraisal of the work. They also facilitate the eventual inclusion of the study in systematic reviews and meta-analyses. The requirement to use a guideline will be phased in for approximately 18 months beginning in 2019. After that time, the journal will require the use and submission of a suitable reporting guideline checklist with manuscripts.

With the move away from print, the journal has been able to take full advantage of color, greatly enhancing the quality and readability of figures with no additional charge to authors. We encourage authors to make the most of color when designing and submitting figures to the journal. However, when you do use color, please consider using contrasting colors that can be viewed in color or printed in black and white without losing information. Also take pity on the 8% of males (including me!) who are red–green colorblind. Please avoid color combinations such as green and brown, blue and purple, green and blue, light green and yellow, blue and gray, green and gray, and green and black.

Most journals that experience rapid growth will offer new titles to expand the brand. For example, Springer Nature offers a variety of titles in addition to Nature (Nature Communications, Nature Genetics, Nature Medicine, and so on). In February, the ADSA board of directors voted and approved a new journal titled JDS Communications. JDS Communications will be different from JDS because it will be 100% Gold Open Access and will only accept short papers (5 printed pages). There will be a rapid time to publication with a continuous publishing model. The journal will be organized and managed using principles and procedures that are already established for JDS. We plan to move all Short Communications, Hot Topics, and Technical Notes out of JDS and into JDS Communications. We also encourage authors to submit research studies that perhaps do not have the breadth needed for a full JDS article but nonetheless represent important science that needs to be published.

The ORCiD identifier provides a digital name (or ID) that uniquely identifies researchers. These IDs are increasingly important given the tremendous volume of scientific research published annually. JDS requires corresponding authors to use ORCiDs in ScholarOne, and we encourage their use for co-authors. We are currently working on adding ORCiDs to JDS articles, and once we have completed this effort we believe that authors will clearly see the benefits of ORCiDs. In the near future, we plan to add a reviewer recognition service (Publons)
to ScholarOne. If reviewers provide their ORCiD, they will be able to have their reviewer history on Publons.

In other news, we have updated the article collections on the JDS website. Article collections are lists of research publications on a specific topic. They are curated by researchers with expertise in the topic area. We appreciate the recent efforts of the many contributors to update their respective collections. Please take a moment to check them out. I think you will find that they are a useful resource. Finally, we are happy to announce that we will be awarding our first Graduate Student Literature Review Award this summer! Please encourage your graduate students to submit their literature review to JDS for next year’s competition (see JDS Instructions to Authors or the ADSA website for more details). It is an opportunity for early-career recognition and journal citations.

As always, it is my pleasure to serve as editor-in-chief of JDS.

Matt Lucy
JDS Editor-in-Chief

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Graduate Student Division Update

The purpose of the Graduate Student Division (GSD) is to provide resources that help graduate students develop the skills needed to become future leaders within the dairy industry. Our advisory council has worked hard to offer novel programming at and beyond the annual meeting.

The upcoming meeting in Cincinnati will boast several opportunities for graduate students to develop scientifically, socially, and professionally. We will begin Saturday with a dairy tour with SAD at Young’s Jersey Dairy in Yellow Spring, Ohio. Young’s Jersey Dairy is a model for agritourism; their operating dairy is also a top family destination, offering more than 70,000 gallons of ice cream and 45,000 pounds of cheese to more than 1 million guests each year. The Grant Writing Workshop is Sunday. Join Jodi Williams, PhD, national program leader at the USDA-NIFA. She will share tips and tricks for successful grant writing, including funding, choosing a grant, and timelines. Also, on Sunday evening, we will gather at 16-Bit Bar and Arcade for our annual mixer. Join us for an evening of trivia, refreshments, and networking.

We will hold our annual GSD Career Insights Lunch Monday afternoon. Students should join for a deeply discounted lunch and a sit-down discussion session with a panel of dairy leaders. Come with questions and listen to some expert advice on each professional's personal journey and the challenges encountered along the way.

The Three-Minute Thesis Challenge will be on Tuesday; we will soon be looking for presenters. Generous cash prizes will be offered, and all GSD members are welcome to participate! This competition encourages students to convey their research in a concise and compelling manner that will resonate with a lay audience. Our final event at the annual meeting will be the GSD Mix and Mingle. At this speed-networking event, graduate students will have the opportunity to mingle with industry professionals and faculty members looking for employees. Students seeking employment are highly encouraged to attend.

Two webinars have been hosted by GSD over the past year, and plans are in the works for one more in May. Check your inbox for a chance to watch live and ask questions, or check out the webinar archive on the GSD website.

Do not forget to check out myDairy Career, our free online job resource center. Several students have found industry jobs, post-doc positions, academic positions, and even graduate student internship opportunities through the site. Several updates have been made, so come see what is new.

Our newsletter has switched from quarterly to biannually in the fall and spring. Newsletter archives can be found on the ADSA GSD website. Our newsletters highlight accomplished professionals within the industry and up-and-coming students, feature competitions and award winners, and include industry spotlights from around the globe. We are always looking for authors who can contribute interesting and insightful content. The GSD is always working to recruit new members. Currently, our membership consists of nearly 350 graduate students and 48 transitional members. If you will be graduating soon, you should know about the transitional membership. Email me at gsd@adsa.org if you are interested in learning more. You can also find out more online.

Stay up to date with GSD activities by connecting with us on Facebook, Instagram, Twitter, or LinkedIn. We have worked with several students in the United States and internationally on social media takeovers, and our following on social media has tripled. Thank you for the great year, and we look forward to seeing you in Cincinnati!

Marie Lawton
2018–2019 GSD President
If Dairy Is Your Business, ADSA Corporate Membership Is for You!

Corporate Membership

It’s time to renew your ADSA annual corporate sustaining membership, and we very much hope you will do so for calendar year 2019! We continue to hold the line on corporate and professional dues. Please take this opportunity to review the corporate sustaining member benefits that we hope you find to be of high value.

Corporate sustaining member dues are $1,000.00. Corporate sustaining membership includes professional membership for your representative. Your representative will have electronic access to Journal of Dairy Science (JDS), can attend DiscoverSM Conferences, and can subscribe to S-PAC (Searchable Proceedings of Animal Conferences) at the ADSA professional member rate. Corporate sustaining members who require company-wide electronic access to JDS can contact Elsevier for a corporate subscription for an additional charge.

JDS

JDS is ranked fourth of 60 journals in Clarivate’s Agriculture, Dairy, and Animal Science category by the 2017 Impact Factor (2.749) and ranked fourth by the 5-year Impact Factor (3.085). JDS is also ranked first by Eigenfactor score, which removes self-citations, and first by total citations (45,612).

In the Food Science and Technology category (using the same Impact Factor), JDS was ranked 35th of 133 journals by the 2017 Impact Factor and 35th of 133 journals by the 5-year Impact Factor. JDS was ranked fourth by Eigenfactor score in this category and third by total citations.

JDS published 904 articles in 2017 compared with 939 articles in 2016. For 2017, the Impact Factor increased by 0.275 from the previous year. Total pages grew from 10,546 to 10,786, an increase of 240 pages or 2%, for the 2017 volume.

S-PAC Subscription at the Member Rate

ADSA’s high-value product, S-PAC, is the most comprehensive animal production and management conference proceedings database in the world. This unique collection of conference proceedings and presentations is a must-have resource for animal scientists, veterinarians, nutritionists, academicians, consultants, and members of industry around the world. The value of S-PAC increases every time a conference and a set of proceedings is added. Your representative can subscribe to S-PAC for only $75. If more than one subscription is needed at your company, S-PAC is now available to ADSA corporate sustaining members for a modest subscription fee of $225 for three concurrent users. There is no limit to the number of corporate subscriptions you can purchase. S-PAC continues to grow, with 61 different conferences and 643 sets of proceedings at the time of this writing. You can try S-PAC at no risk—five days for only $5!

Synchronized Symposia Recordings

Your representative has access to dozens of synchronized symposia recordings, with more added each year.

Annual Meeting Benefits

- One free annual meeting registration—a $445 value for this benefit alone!
- Listing of corporate name at the ADSA membership booth
- Exhibit booth discount for in-line or corner booth

Corporate Sponsor Recognition

- A listing on ADSA’s website, with a link to your home page
- Your company’s name on the JDS website (About the Journal)
- A listing in the ADSA Annual Meeting Program, ADSA’s weekly Dair-e News, and the spring and fall editions of ADSA News

Please contact Vicki Paden at vickip@assochq.org to become a corporate sustaining member.
2019 ADSA
Corporate Sustaining Members

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Discover S-PAC!  
http://spac.adsa.org
S-PAC®—Information for the Dairy World

As ADSA members, we have access to three of the top dairy information resources in the world. The most widely recognized is the Journal of Dairy Science, the top-rated journal in its field. The second is the third edition of Large Dairy Herd Management (e-book). The third is the Searchable Proceeding of Animal Conferences (S-PAC; https://spac.adsa.org/). If you have searched abstracts from past ADSA or Joint Annual Meetings, you have had a taste of what S-PAC can do. S-PAC, the largest online collection of animal and dairy foods conference proceedings in the world, allows subscribers to search all conferences in a single pass. It works on your computer, tablet, or smartphone so you have access whenever and wherever you need it.

ADSA members have long recognized that proceedings from conferences that focus on producers, agricultural professionals, and scientists are great resources that demonstrate the application of cutting-edge research and management information. Frequently, the first—and sometimes only—place this information appears is in the conference proceedings. S-PAC was established 13 years ago as a convenient portal to the wealth of valuable information available from these conferences. It is a win–win situation. S-PAC subscribers benefit from access to the information, and conferences benefit by increasing their visibility, allowing a much broader audience than just conference attendees or those who happen to find the conference proceedings, to use information provided at the conference. S-PAC’s reach extends around the globe as subscribers include dairy professionals from the United States and 39 other countries.

Currently, 643 proceedings from 61 conferences are available to subscribers. For several conferences, S-PAC is the only place the proceedings are available electronically. A few well-known national conferences available on S-PAC include the American Association of Bovine Practitioners, Western Dairy Management Conference, Four-State Dairy Nutrition, and Western Canadian Dairy Seminar. The selection of international conferences is growing, including the International Symposium on Dairy Cattle Nutrition (Wageningen), International Symposium on Dairy Cow Nutrition and Milk Quality–Beijing, China, International Colloquium on Paratuberculosis, and those from the EAAP. New conferences and proceedings are added frequently, making S-PAC a tool of ever-increasing value.

The access to cutting-edge, real-world application of research presented in the proceedings makes S-PAC an outstanding resource for the classroom. Our academic library subscription option or the inexpensive student subscriptions ($5 for undergraduate and $10 for graduate student members) make it a great value for students and instructors.

S-PAC is easy to use. Each article in the database is stored as an individual PDF, allowing the collection to be searched any way you wish. This means that rather than going to multiple sets of proceedings and paging through them for the information you need or checking numerous websites for information you think may have been presented at a conference, a visit to S-PAC allows you to rapidly search all proceedings in the database.

Visit http://spac.adsa.org/ to check out S-PAC. There you will find a list of all conferences in the database, a calendar of upcoming conference dates, and links to websites for many others. You can test out the system at the special rate of $5 for five days. This allows you full access to the system as many times as you like during those five days, and you can sign up for this offer repeatedly. To sign up for the special offer, or if you are ready to add S-PAC to your information toolbox, simply go to the Subscribe to S-PAC page and follow the links. Subscription is open to the public; however, members of the dairy, animal, and poultry science associations as well as several partner organizations may subscribe at member rates, a savings of $75. If you have questions about S-PAC, please contact Ken Olson (keolson@prodigy.net) or Peter Studney (peters@assochq.org).

Remember, S-PAC is one of the many benefits of membership in ADSA. Why not put it to work for you now?

Kenneth E. Olson
ADSA Student Affiliation Division Update

Regional meetings in the Midwest, Northeast, and Southern regions were held in January and February. More than 600 Student Affiliate Division (SAD) members participated in these regional meetings, with activities including quiz bowl, research paper presentations, educational programming, and more. Regional meetings are a fantastic way to get dairy club members from across the United States excited about the national meeting. This year, a national SAD officer spoke at each regional meeting to encourage attendance at the annual meeting.

The SAD of ADSA has been actively involved in strategic planning, regional meetings, and program development for our annual meeting in Cincinnati. This year, ADSA SAD wanted to revise the program schedule to encourage member participation in scientific programs as well as continue and improve networking opportunities for our members.

- **Shift the meeting schedule to encourage participation:** revised the SAD schedule to allow SAD members more time to move from one competition to the other; revised SAD competition times to allow members to be recognized at the annual ADSA awards ceremony.
- **Encourage collaboration between SAD and professional ADSA members:** encouraging SAD members to sign up for a ticketed mentoring session; encouraging members to attend the ADSA mentoring sessions and gain key advice pertaining to graduate school, networking, and career searching.
- **Continue to be present in the industry and develop presence:** posting items of interest to dairy students on the SAD Facebook page, including club events, industry spotlights, meet your officers, dairy news, opportunities for undergrads, and more; continuing the highly successful career roundtable luncheon and inviting speakers from the Graduate Student Division and SAD alumni.

Plans are well underway for the 2019 ADSA SAD Meeting in Cincinnati, Ohio. This year’s meeting will begin with an exciting tour of Young’s Jersey Dairy, including a tour of the farm and creamery. Following the tour, SAD members will be greeted in the SAD hospitality room, followed by dinner in downtown Cincinnati.

Sunday afternoon, following the luncheon and officer candidate introductions, students will be competing in the Dairy Quiz Bowl, followed by the opening session. Monday will start off with the undergraduate poster competition along with the yearbook and scrapbook competitions. The rest of the day will consist of SAD competitions and the Undergraduate Student Career Roundtable Luncheon. Monday night will be spent hosting a casino and DJ night, giving SAD members the opportunity to continue networking among one another. On Tuesday we will hold our business meeting, and SAD will elect our new officers. We will also hold a workshop on dairy media training and the grand finale: our awards luncheon, packed with award recognitions and the announcement of the new SAD national officer team.

The support of SAD from ADSA professional members and the industry is highly appreciated. We are currently looking for judges for the undergraduate poster, yearbook, and scrapbook competitions as well as encouraging professional members to sign up as a mentor for the SAD mentoring sessions when registering for the meeting. The members of the national officer and advisor team are all honored to serve the members of ADSA SAD and excited for the great times to be had at the national meeting in Cincinnati! For more information, we invite you to visit the ADSA SAD website. If your company is interested in becoming more involved with SAD, please contact Jack S. Myers, SAD president (jorozco@iastate.edu), or Molly Kelley, ADSA SAD liaison (mollyk@adsa.org).

Jack S. Myers
2018–2019 SAD President
DiscoverSM Conference Series

2018 Conference

The 35th ADSA Discover Conference, “Effects of Stress on Health and Production in Dairy Cows,” was held October 29 to November 1, 2018, in Itasca, Illinois. The DC35 Program Committee members were Lance Baumgard, Iowa State University (co-chair); Marcus Kehrli, National Animal Disease Center, USDA-ARS (co-chair); Barry Bradford, Kansas State University; Jessica McArt, College of Veterinary Medicine, Cornell University; Geoffrey Smith, Ruminant Medicine, North Carolina State University; and Michael Ballou, Department of Animal and Food Sciences, Texas Tech University.

The conference themes were as follows:
- Inflammatory and metabolic stressors during the transition period
- Neonatal challenges and disease
- GI stress and immunometabolism/inflammation
- Immune system and reproduction
- Integrating immunity and nutrition

There was great interest in this timely conference, as indicated by the record attendance and support from 14 sponsors. The 193 registrants represented 29 US states, 18 countries (63 international registrants), 27 universities, industry from 23 states and 13 countries, and graduate students.

2019 and 2020 Conferences

The 36th ADSA Discover Conference, “Lipids in Dairy Nutrition: From Feed to Milk Fat,” will be held May 28 to 31, 2019, in Itasca, Illinois. The DC36 Program Committee members are Kevin Harvatin, Penn State University (co-chair); Tom Jenkins, Clemson University (co-chair); Jim Drackley, University of Illinois; Al Kertz, ANDHIL LLC; Vikram Mistry, South Dakota State University; Yvan Chouinard, Laval University; and Maurice Eastridge, The Ohio State University.

The conference themes are as follows:
- Feed lipid supply
- Managing fatty acid in the rumen

A mini symposium on the 34th ADSA Discover Conference, “Reexamining Amino Acid and Energy Interactions in the Dairy Cow” (May 2018), is scheduled for June 23, 2019, during the ADSA Annual Meeting to summarize the conference, discuss strategies to implement research findings, and focus ongoing and future research.

An Animal Health Platform Session focused on the 35th ADSA Discover Conference, “Effects of Stress on Health and Production in Dairy Cows” (October 2018), is scheduled for June 26, 2019, during the ADSA Annual Meeting to summarize the conference and explore the topic in more detail.

The 37th ADSA Discover Conference, “Natural Bioactives in Dairy Production: Science, Functions and the Future,” is scheduled for October 28 to 31, 2019, in Itasca, Illinois. The DC37 Program Committee members are Todd Callaway, University of Georgia (co-chair); Johan Osorio, South Dakota State University (co-chair); Charlie Elrod, Natural Biologics; Ken Griswold, Trouw Nutrition; and Gerd Bobe, Oregon State University.

The conference themes are as follows:
- Microbial modification
- Innate immunity
- Adaptive immunity
- Redox potential and cellular stress
- Research methodology and application

The 38th ADSA Discover Conference, “Robotics and Automation in the Dairy Industry,” is scheduled for May 11 to 13, 2020, in Itasca, Illinois. The DC38 Program Committee members are Marcia
Endres, University of Minnesota (co-chair); Mathew Haan, Penn State University (co-chair); Jeffrey Bewley, Alltech; Trevor DeVries, University of Guelph; and Douglas Reinemann, University of Wisconsin.

Adoption of technology for robotic milking systems has grown since 2012. Adoption of these and other automation technologies is likely to continue, being driven by labor availability and quality of life issues on farms. These technologies will affect feeding management, facility design, labor needs, and how dairy producers interact with their herd. The conference is in the early stages of development. Topics being considered for the program include robotic and automatic milking, automated feeding systems, barn automation, economics of robotic milking systems, and impacts on cow production, health, and comfort.

Larry R. Miller
Discover Conference Director
The 2019 Midwest ADSA-ASAS Annual Meeting was held March 11 to 13, 2019, in Omaha, Nebraska. The meeting will continue to be held in Omaha through 2022. In 2020, the meeting will be earlier than usual (March 2–4), so make sure to plan ahead. The 2019 meeting included a number of symposia, scientific sessions, graduate student activities, and networking. The graduate student directors (Ashley Conway and Amy Petry) organized three activities, including a Lunch and Learn, a networking breakfast, and a meal-packing activity to support a local charity.

Ten Young Scholar Award recipients were recognized during the Monday evening session. The Young Dairy Scholars also gave invited presentations during specific sessions that best fit their research. These presentations included “Regulation of immune signaling by extracellular vesicles” by Caroline Ylioja; “Early life fetal microbiome transplantation can enhance growth and performance in neonatal dairy calves” by Fernanda Rosa; “Maternal supply of methionine during late pregnancy alters in-utero and neonatal development, hepatic one-carbon metabolism, and innate immune response in Holstein calves” by Abdulrahman Alharthi; “Diet starch concentration and starch fermentability affect energy intake and production of dairy cows during the postpartum period” by Rodrigo Albornoz; and “Developing and validating a heat stress model in dairy cows” by Mohmmad Al-Qaisi.

The Midwest Academic Quadrathlon was a success, with 11 teams participating. Several teams traveled through a snowstorm to make it for the lab and presentation section on Sunday at the University of Nebraska–Lincoln (UNL) campus. Much appreciation is extended to the UNL faculty and students who helped coordinate this portion of the event. The exam and quiz bowl sections were held on Monday, and the quiz bowl finals were held Monday evening. The overall winner was North Dakota State University, with Michigan State University taking second place and University of Missouri taking third place. Congratulations to all the teams that competed, and we look forward to next year’s competition. A special thanks to Scott Radcliffe (Purdue University) for planning and organizing the event and to all the advisors and judges for giving their time to make this happen.

On Tuesday, two dairy-specific symposia were held, including the David Schingoethe symposium and dairy translational symposium (formerly the dairy extension symposium). The Schingoethe symposium focused on fat feeding and metabolism, with Jill Anderson, Cliff Ocker, and Adam Lock as invited speakers. The dairy translational symposium focused on forage management and included Virginia Jin, Wayne Coblentz, Matt Akins, and Hugo Ramirez as invited speakers. On Wednesday, a physiology symposium included presentations emphasizing the importance of advancing reproduction, with Jack Britt, Paul Fricke, and Richard Pursley presenting. At the awards and business meeting on Tuesday evening, we honored deserving colleagues and the winners of the undergraduate, MS, and PhD competitions. We also welcomed new members to the Midwest ADSA board, with Maristela Rovai and Kevin Herrick coming on board this year.

The current Midwest ADSA Branch board leadership for March 2019 to March 2020 consists of President Matt Akins (University of Wisconsin–Madison), Vice President Brad Heins (University of Minnesota), Secretary Maristela Rovai (South Dakota State University), Past President Jill Anderson (South Dakota State University), Director Kevin Herrick (Poet Nutrition), and ADSA-ASAS Director-at-Large Tim Safranski (University of Missouri). The section thanks the service that Jim Paulson provided over the past four years while on the board. In the coming year, we will be asking for symposia suggestions for the 2020 meeting; these suggestions help increase the dairy content at the Midwest meeting. Also, please consider being a candidate for the board or serving on a symposia committee. Your service on these committees is vital to planning the meeting and is much appreciated.

Matt Akins
ADSA Midwest President
The Dairy Club at NC State hosted the Southern Regional ADSA Student Affiliate Division (SAD) meeting on February 21 to 23, 2019. The meeting was held in Hickory, North Carolina, in conjunction with the NC Dairy Producers Conference and the NC Cattlemen's Conference. More than 85 students and advisors from 10 schools from across the region attended the meeting, which kicked off with a pizza dinner and social in the trade show on Thursday evening. Friday morning, students listened to their fellow classmates and colleagues deliver presentations about dairy production and dairy foods topics as well as original research presentations. Students then had time to network with industry representatives or hear other scientific presentations during a morning break.

The ADSA SAD students joined the NC Dairy Producers Association for lunch and heard remarks from the NC Commissioner of Agriculture, Steve Troxler, and a motivating presentation by Jones Loflin, who encouraged us to “cultivate what we want to grow.” In the afternoon, schools competed in the Dairy Quiz Bowl, where the final round came down to University of Georgia versus University of Florida. The Bulldogs took home the win.

Saturday, students toured two dairy facilities: Stamey Farms and Grayhouse Dairy. David Stamey explained the history of Stamey Farms and shared some great information about exporting cattle and the effect on improving dairy genetics worldwide. Then, the group visited with Andy and Jimmy Gray, who recently built a new dairy facility. Students learned about considerations that producers have to take into account when building facilities, especially keeping in mind their ability to grow in the future. After tours, the group enjoyed lunch and wrapped up the meeting with the awards ceremony, the results of which are included below. The Dairy Club would like to thank all the sponsors, including NC Dairy Producers Association and NC Dairy Advantage, for their generous support.

**Dairy Production Paper Competition**
1st place: Sara Jayne Wint, Clemson University  
2nd place: Kate Ciaston, Virginia Tech  
3rd place: Kenne Hillis, University of Georgia

**Original Research Paper Competition**
1st place: Evan Diepersloot, University of Florida  
2nd place: Melanie Edwards, University of Kentucky  
3rd place: Connor Rudd, Virginia Tech

**Dairy Foods Paper Competition**
1st place: Alyssa Rauton, University of Georgia  
2nd place: Huri Torrealba, University of Florida  
3rd place: Leah Jenkins, Virginia Tech

**Scrapbook Competition**
1st place: Virginia Tech  
2nd place: Louisiana State University  
3rd place: University of Georgia

**Annual Report Competition**
1st place: Virginia Tech  
2nd place: Louisiana State University  
3rd place: University of Kentucky

**Website Competition**
1st place: University of Georgia  
2nd place: Louisiana State University  
3rd place: University of Florida

**Quiz Bowl**
1st place: University of Georgia

**Most Miles Traveled**
1st place: Louisiana State University
Outstanding Chapter
1st place: Virginia Tech
2nd place: University of Kentucky
3rd place: Clemson University

2019–2020 Southern Regional SAD Officers
President: Nick Uzee, Louisiana State University
1st vice president: Lilly Robertson, University of Kentucky
2nd vice president: Shauna Somerville, North Carolina State University
3rd vice president: Catherine Savage, Virginia Tech
Secretary/treasurer: Haley Swett, Clemson University
Officer at large: Caitlyn McConn, West Virginia University

S. H. Ward
Southern Branch Past President

2018 Southern Regional Dairy Challenge
A total of 68 students and 12 schools (Louisiana State University, Eastern Kentucky University, Alabama A&M, West Virginia University, Virginia Tech, University of Georgia, University of Tennessee, University of Florida, Tarleton State, University of Mount Olive, Clemson University, and Middle Tennessee University) participated in the 2018 Southern Regional Dairy Challenge hosted by the University of Tennessee November 11 to 13, 2018. The event was well underway Sunday evening following a tour of Sweetwater Valley Farm, with a welcome by host coordinator Gina Pighetti and Southern Chair Dave Winston followed by an educational talk by David Lee. Then, the “boots hit the ground” with data distribution, and analysis of the contest farm was well underway. Mixed into conglomerate teams with members representing different home institutions, students not only worked to dig into the data but also learned to work together, homing in on the strengths of the farms and each other. Monday morning began bright and early with a two-hour visit to the competition farm, where teams made visual observations of on-farm practices, validated observations found in the farm’s data, and ultimately worked on developing strategies for improvement. Photos and observations were recorded and used that afternoon in compiling a 20-minute presentation to give to a panel of experts and judges the following day. The presentations were filled with observations of strengths and weaknesses of the farm and provided areas and strategies for improvement. Teams covered topics in nutrition, reproduction, parlor practices, animal health, finances, cow comfort, and labor management; the judges ultimately awarded the following teams first and second place.

Division A
1st Place
Team 2, consisting of Casey Anderson (Louisiana State University), Will Hipsher (University of Tennessee), Noel Naylor (Alabama A&M University), Megan Pearce (University of Florida), and Amber Burch (Virginia Tech). This team was sponsored by ABS.

2nd Place
Team 4, consisting of Brian Norton (Louisiana State University), Dalton Ulman (West Virginia University), Chloe Bolick (University of Mount Olive), Kelby Tucker (Eastern Kentucky University), and Sarah Baynard (Virginia Tech). This team was sponsored by Purina Animal Nutrition.

Division B
1st Place
Team 13, consisting of Luke Johnson (University of Mount Olive), Hannah Carper (Eastern Kentucky University), Jazmine Pittman (Louisiana State University), Rachel Ezzell (University of Mount Olive), and Kate Lyn Allen (Virginia Tech). This team was sponsored by Arm and Hammer Animal Nutrition.

2nd Place
Team 8, consisting of Michael Fioretto (University of Florida), Jaime Guerrera (University of Tennessee), Emma Rovitz (Clemson University), and Rebecca Wilkins (Virginia Tech). This team was sponsored by Valley Ag Software.

Other team sponsors included Dairy Records Management Systems, Select Sires, Genex Cooperative, Balchem Corporation, Alta Genetics, Dairy One, Phibro Animal Health, Adisseo, Farm Credit, and Blue Sky Farms.

J. Bohlen
Southern Branch President

Continued
Southern Branch Activities in Cincinnati

The Southern Branch will again host its annual graduate student paper competition, symposium, and annual business meeting in Cincinnati. This year, the symposium and business meeting are moving to Tuesday afternoon. The Southern Branch has historically conducted a symposium geared toward continuous or emerging issues of the southern dairy industry. Heat stress, forages, and milk quality represent a large portion of research conducted by colleagues in this region as well. However, the Southern Branch recognizes that many issues challenging our producers challenge producers across the nation. For this reason, the symposium this year is tackling the complex topic of dairy cattle longevity. For decades, dairy cattle longevity has averaged less than three years after first calving despite improvements in genetics and cow comfort. Some consider this short longevity a result of forced culling and a welfare issue. This short longevity is also driven by an abundance of replacement dairy heifers through the use of sexed semen and efficient reproduction. Although younger herds capitalize on genetic progress, they have fewer efficient mature cows and greater replacement costs. There is also a growing interest in the use of beef semen in dairy cattle, which does not add to the supply of dairy heifers. This symposium, with speakers including Mike Overton (Elanco Animal Health), Nigel Cook (University of Wisconsin), Albert De Vries (University of Florida), and David Kendall (STGenetics), looks to re-evaluate how many dairy heifers are needed, which animals should be the dams, and what to do with animals that do not need to supply replacements. These topics are interdependent and will drive future dairy cattle longevity. The Southern Branch extends a warm welcome to everyone to not only attend the thought-provoking symposium on dairy cattle longevity but to also explore the work of graduate students at the Southern Branch graduate student paper competition.

As part of the Southern Branch’s annual business meeting, which will follow the symposium, we will bestow the Honor Award, which recognizes someone from the Southern Branch for their distinguished service to the dairy industry. Nominations for the Honor Award should be sent to Jillian Bohlen (jfain@uga.edu) no later than May 31, 2019.

J. Bohlen, University of Georgia
A. De Vries, University of Florida
ADSA Northeast Branch Update

The Northeast Branch is excited to be hosting our regional meeting on November 4 in conjunction with the Penn State Dairy Cattle Nutrition Conference in Hershey, Pennsylvania. This meeting will feature several speakers from the Northeast. In addition, there will be an opportunity for graduate students to present in a poster session. Opportunities for networking with regional and national scientists will also be available, and we will hold a brief business meeting.

The Northeast Branch is currently in a period of transition as we work to serve our membership in new ways. Please consider supporting the Northeast branch by attending events, participating in activities, nominating deserving individuals for the Northeast awards, and submitting ideas to your executive board. Additionally, if you or someone you know would like to serve on the executive board, we will be accepting nominations for secretary/treasurer soon.

Tara Felix
ADSA Northeast President

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briczinski@gmail.com

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Rfr3@psu.edu

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Lapsed members and nonmembers: Renew your membership or join ADSA today and save on meeting registration fees. Simply mark (below) the correct membership category and then, in a single payment, include the membership dues with the appropriate member registration fee for the 2019 Annual Meeting. Membership will be valid through 12/31/2019.

ADSA Professional Membership Dues $110
ADSA Undergraduate Student Membership Dues $5
ADSA Graduate Student Membership Dues $10
ADSA Postdoc Membership Dues $55

2019 INTERBULL AND ADSA® ANNUAL MEETING REGISTRATION

ADSA Professional Members: Save $50.00 on registration fees by registering online by 11:59 pm on March 14, 2019, at https://www.adsa.org/Meetings/2019-Annual-Meeting/Registration

ADSA member ID#___________ □ First-time attendee

Name ___________________________________________ Last (Family) ___ First ___ Middle Initial ___ Email _________________

Preferred first name on badge ______________________________ Email _____________________

Institution/company __________________________________________

Business address _____________________________________________

City ___________________________ State/province ________

Country __________________________________ Zip/postal code ___________

Phone __________________________ Fax _______________________

Significant others and children are not required to register. To receive a name badge, please provide name(s) below:

_________________________________________________________________________________________________

Emergency contact name and phone number: _______________________________________________________________

INTERBULL REGISTRATION FEES
Professional □ $340
Student □ $250

ADSA REGISTRATION FEES
Before May 30 After May 30
ADSA Professional Member □ $495 □ $645
Nonmember** □ $600 □ $695
Fellow/Life Member □ $175 □ $200
Postdoc Member □ $150 □ $200
Postdoc Nonmember** □ $225 □ $375
Graduate Student Member □ $100 □ $200
Graduate Student Nonmember** □ $200 □ $250
Undergraduate Student Member □ $0 □ $50
Undergraduate Student Nonmember** □ $200 □ $250
One-Day Registration □ $195* □ $195*

*Please note: The 1-day option is single price and nonrefundable and cannot be exchanged for another registration option.

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ADSA Professional Membership Dues $110
ADSA Undergraduate Student Membership Dues $5
ADSA Graduate Student Membership Dues $10
ADSA Postdoc Membership Dues $55

REGISTER ONLINE: https://www.adsa.org/Meetings/2019-Annual-Meeting/Registration

REGISTRATION FORM CONTINUED ➤
### TICKETED EVENTS

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<th>Date</th>
<th>Event</th>
<th>Fee</th>
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<tr>
<td><strong>Saturday, June 22</strong></td>
<td>SAD Shirt</td>
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<td></td>
<td>SAD/GSD Dairy Tour</td>
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<td><strong>Sunday, June 23</strong></td>
<td>Nutrition Models Workshop</td>
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<td>SAD Undergraduate Midday Mixer</td>
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<td>Dairy Records Mgmt Workshop (AM)</td>
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<td>Dairy Records Mgmt Workshop (PM)</td>
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<td>Graduate Student/Postdoc</td>
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<td>GSD Symposium: Grant Writing</td>
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<td>Opening Session and Reception</td>
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<td>GSD Mixer: 16-Bit Bar and Arcade</td>
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<td>ADSA Production Division Extension Breakfast</td>
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<td>SAD Mentoring Session 1*</td>
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<td>Companion Tour 1: Under the Market</td>
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<td>Fun Run</td>
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<td>Companion Tour 2: Cinci Top 10 Tour</td>
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<td>Production Division Lunch (boxed lunch; optional)</td>
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<td>Iowa State University Reception</td>
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<td>CSAS Wine and Cheese Social</td>
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<td>GSD Mix and Mingle</td>
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<td><strong>Wednesday, June 26</strong></td>
<td>Mixed Models Workshop (1.5 days)</td>
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<td>Teagasc-Moorepark Symposium (fee includes breaks and lunch)</td>
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*SAD Mentoring Sessions—indicate research areas of interest:

- Animal Behavior and Well-Being
- Animal Health
- Animal Breeding
- Extension
- Food Safety
- Food Science
- Forages and Pastures
- Genetics
- Growth and Development
- Lactation
- Physiology and Endocrinology
- Production/Management
- Ruminant Nutrition
- Teaching

- I would like to serve as a mentor for the SAD mentoring sessions

### PAYMENT

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**CANCELLATION POLICY**

Note: This cancellation policy does not apply to nonmember presenters. Abstract presenters must register by March 14, 2019; see page 2 of this brochure for the nonmember presenter cancellation policy.

To be eligible for a refund of meeting registration fees, requests must be received in writing. If the request is received on or before May 23, 2019, the registrant will receive a 90% refund. If the request is received after May 23, 2019, NO REFUND will be issued.

The cancellation/refund request deadline applies only to meeting registration fees. Ticketed events may be cancelled if minimum attendance requirements are not met. Refunds will be issued for cancelled ticketed events. No refunds will be issued for ticketed events that are not cancelled. All approved refunds will be issued after the meeting in the form in which payment was made.

### IMPORTANT DEADLINES

- Abstract Submission: February 20
- Nonmember Presenter Registration: March 14
- Early Bird Member Registration: March 14
- Early Registration: May 30
- Advance Preload: June 19

### PLEASE NOTE

Please be sure to preregister for all ticketed events, including social events; tickets will not be available for purchase on site. Scheduling and locations are subject to change without notice.

### SUBMIT THIS REGISTRATION FORM

Register online at https://www.adsa.org/Meetings/2019-Annual-Meeting/Registration or complete and mail or fax this form with your check, money order, or credit card information to:

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1800 South Oak, Suite 100
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Fax: 217-398-4119

ADS is committed to conducting meetings where all attendees are free to participate in an inclusive space without harassment of any form. This extends to various meeting, planning, and committee activities occurring in conjunction with any ADSA event. Violations of this policy can be reported to the Board of Directors. The Internal Affairs Committee will render judgment for the offense, which may include removal from the meeting, replacement as a committee or session chair, or withdrawal of abstract(s) or other presentations.

By agreeing to serve on a committee or registering for the meeting, attendees agree to abide by these rules of behavior.
Future Meetings

**ADSA Annual Meeting**

June 23–26, 2019
Cincinnati, OH

**36th Discover Conference**

Lipids in Dairy Nutrition: From Feed to Milk Fat
May 28–31, 2019
Eaglewood Resort and Spa
Itasca, IL

**37th Discover Conference**

Natural Bioactives in Dairy Production: Science, Functions and the Future
October 28–31, 2019
Eaglewood Resort and Spa
Itasca, IL

**38th Discover Conference**

Robotics and Automation in the Dairy Industry
May 11–13, 2020
Eaglewood Resort and Spa
Itasca, IL

**2020 ADSA Annual Meeting**

June 14–17, 2020
Location TBD

**2021 ADSA Annual Meeting (co-located with ASAS)**

July 11–14, 2021
Louisville, KY

**2022 ADSA Annual Meeting**

June 19–22, 2022
Kansas City, MO