Annual Meeting Program Chair Letter

The 2017 ADSA® Annual Meeting in Pittsburgh is set to be the most comprehensive, insightful, and thought-provoking dairy conference to date. With the aim of “integrating dairy science globally” (our meeting theme), the program committee has worked diligently to develop a scientific program that will provide scientists, technical support professionals, teachers, students, and industry representatives a venue for the international discussion and exchange of the latest information in dairy science.

As a result of the extraordinary response to the call for symposia, outstanding membership involvement, and remarkable work of the volunteers who make up the program committees, the 2017 ADSA meeting will feature 18 scientific sessions, which already have received more than 1,200 abstracts for oral and poster presentations and 31 symposia and workshops that will enable in-depth discussion of the latest scientific findings and dairy industry issues on a global platform.

This year, the overall schedule of the meeting will differ from the joint annual meeting of 2016. The meeting will take place from Sunday morning (June 25) to Wednesday afternoon (June 28), including some pre- and postconference events. This schedule is expected to highlight associated events and facilitate travel arrangement, particularly of attendees coming from abroad. Preconference events that will run Sunday morning and afternoon include

Continued on page 2
the ADSA Lactation Symposium, Nutrition Models Workshop, Teaching Workshop, The Impact of Raw Milk on Dairy Products Workshop, ADSA Graduate Student Symposium, Dale Bauman Recognition Symposium, and Late-Breaking Original Research (oral presentations and posters). Naturally, science will take center stage during the main conference, which is denoted by the following highlights: Precision Dairy Farming Symposium, Joint ADSA/National Mastitis Council Animal Health Symposium, ADSA Multidisciplinary and International Leadership Keynote (MILK) Symposium, and a Joint ADSA and American Society for Nutrition Symposium, among others. The meeting will conclude with some extraordinary postconference events such as the Mixed Models Workshop (Wednesday/Thursday) and Teagasc-Moorepark/University College Cork Cheese Symposium (Thursday, June 29). New features at the 2017 ADSA meeting include a keynote focused on professional development (The Human Element; Ethan Schutz) and the inaugural Informal Milk Quality Session.

The scientific program and associated events—combined with a wonderful city that is very easy to access and offers a plethora of convenient hotels, closely located dining options, and attractions—ensure that there will be something for everyone to enjoy. We look forward to seeing each and every one of you at the 2017 ADSA Annual Meeting!

Ignacio Ipharraguerre
Overall Program Chair
2017 Annual Meeting Symposia Schedule

Sunday, June 25 (Pre-Conference)

Afternoon
• ADSA Graduate Student Symposium: Building Strong Work Relationships to be Effective
• Dale Bauman Recognition Symposium
• Late-Breaking Original Research Orals and Posters
• Teaching Workshop: Helping Students Learn

Full Day
• ADSA Lactation Symposium
• Workshop: Nutrition Models
• Workshop: The Impact of Raw Milk on Dairy Products

Monday, June 26

Morning
• Breeding and Genetics Symposium: Inbreeding in the Genomics Era
• Ruminant Nutrition: Metabolomics Applications in Dairy Cow Metabolism
• Small Ruminant Symposium: New Opportunities for Dairy Sheep and Goats
• Teaching/Undergraduate and Graduate Education Symposium: Mentoring in Dairy Science

Afternoon
• ADSA Production Division Symposium: Future of the Dairy Sector Toward 2030
• ADSA Southern Section Symposium: Key Considerations for Improving Milk Quality in the Southeast
• Animal Health Symposium: Joint ADSA/National Mastitis Council Symposium: Mastitis Control and Milk Quality Globally: Past, Present, and an Amazing Future
• Bioethics Symposium: Sustainable Dairy Farm
• Forages and Pastures Symposium: Multidimensional Functions of Forages and Pastures in Dairy Production
• Ruminant Nutrition Symposium: Ruminal Metagenomics in Dairy Cattle—Beyond Microbial Diversity

Tuesday, June 27

Morning
• ADSA Multidisciplinary and International Leadership (MILK) Symposium: The Dairy Cow in 50 Years
• Dairy Foods Symposium: Processing—Biofilm Formation on Dairy Separation Membranes
• Precision Dairy Farming Symposium: Precision Dairy (PD) Management Today

Afternoon
• ADSA/American Society for Nutrition Joint Symposium: Does the Amount and Type of Fat that You Eat Matter?
• Animal Health Symposium: Antibiotics and Animal Agriculture: Outlook for the Next 10 Years
• Dairy Foods Symposium: Emerging Research and Insights to Drive Innovations in Fluid Milk (followed by NDC Reception)
• Growth and Development Symposium: Microbial Endocrinology in Ruminant Growth and Development

Wednesday, June 28

Morning
• Animal Behavior and Well-Being Symposium: Allowing for Natural Behavior in Dairy Cattle
• Dairy Foods Microbiology Symposium: Biology LAB Symposium: Recent Developments in Lactic Acid Bacteria
• Milk Protein and Enzymes Symposium: Protein Interactions—Aggregations and Interfaces
• Physiology and Endocrinology Symposium: Mediators of Effects of Stress on Reproduction, Growth, and Lactation
• Production, Management, and the Environment Symposium: Greenhouse Gas Emissions from Dairy Operations

Afternoon
• Chr. Hansen Symposium: Microbial Ecology of Cheese

Full Day
• Mixed Models Workshop

Thursday, June 29 (Post-Conference)

Morning
• Mixed Models Workshop (continued)

Full Day
• Teagasc/Moorepark–University College Cork Cheese Symposium
Letter from the President

The two primary functions of ADSA are holding the annual meeting and publishing the journal. The Pittsburgh meeting is shaping up to be a very well attended meeting, with over 1,200 individual abstracts submitted. In addition, 20 symposia are being organized, and several other satellite symposia and workshops will be available. Sponsorship and room reservations are meeting or exceeding our expectations. Old timers like me will remember the somewhat greater intimacy of dairy-only (but air conditioned!) meetings but for our younger members this will be a new experience. We are hoping the main complaint will be one that we often hear: there was too much to do and see! Do not miss this great meeting.

Members may not be aware that the Journal of Dairy Science has grown tremendously in the number of papers published over the last few years, and this growth is anticipated to continue. Our journal is clearly the place to publish dairy-related research, with most papers published originating outside of North America. The other good news is that the superfund has grown to over $8 million, which was the dollar target set at initiation of the fund. ADSA has been able to make significant contributions to this fund from positive annual budget balances over the years, but most of the growth has come from being invested entirely in equities in a (fortunately) bull market. The ADSA Board is now in the process of determining the best way to secure this financial asset as an endowment to support continued success of the journal, and therefore ADSA. The superfund was started to make the journal an attractive place to publish while ensuring the continued financial stability of the journal. The stated goal of the superfund was that upon fund maturity, proceeds from the fund would be used to completely eliminate member page charges. When the journal was much smaller, and assuming a 5% annual return from the superfund endowment, $8 million would have met this goal. At the current size of the journal, it would take a much larger superfund balance to achieve this goal. The board has explicitly decided not to seek continued growth of the superfund to achieve a new, larger financial balance, which could potentially eliminate page charges sometime in the future, assuming journal growth stopped or was halted intentionally.

For those of you interested in the financial model of the journal, here are some of the broad basics. The journal business model is based on revenues earned from institutional subscriptions to the current journal and subscriptions to the backfile (papers older than one year). This income is added to what authors pay to publish their work. If access to all articles were completely open, it would obviously become impossible to sell subscriptions for access at the same time, so publication costs would then fall entirely on contributing authors. Recently, our publishing partner, Elsevier, indicated that we need to make a decision on either keeping the backfile open to nonmembers and giving up revenue associated with backfile sales to institutions or restricting backfile access to members only. The board is currently deciding how to deal with this issue of lost revenue due to loss of backfile sales or loss of backfile access to nonmembers. Certainly, the presence of the superfund as an endowment to support the journal makes it easier to balance financial sustainability of the journal (and ADSA) with the association’s goal of disseminating new scientific information relevant to dairy science.

Lou Armentano
ADSA President
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From the JDS Editor-in-Chief

It is hard to believe, but I will have completed three years as editor-in-chief of the Journal of Dairy Science (JDS) by this summer. I continue to enjoy the work that I do. One of the reasons that I like the job is because I work with so many highly motivated, talented, and dedicated people. These people include authors, editors, reviewers, and FASS staff. People really do make the difference! Thank you to all those individuals who make JDS a success.

The JDS brand is prominently displayed by our authors when they present their research findings. The reason that authors show our brand is because they know that the audience will recognize the brand and understand that it means quality in terms of science. We had another record year in 2016 with our greatest number of submissions and published pages. The pace of the submissions has not slowed in 2017, so we expect strong numbers for the foreseeable future. One of the areas of growth was the Dairy Foods section of the journal. Dairy foods papers now account for 30% of the journal, with the balance of articles (70%) in production. Despite the very strong increase in total pages, we were able to reduce our time to publication by approximately 10 days. That is welcome news to our very loyal authors and a credit to our very dedicated editors, reviewers, and production staff.

In an effort to learn more about the people who access JDS content, we initiated a simple registration process that enabled access to our free content once an individual had registered. One of our first major initiatives was the development of new sections and subsections and the addition of new section editors. The additional editors and the reorganization of the sections have relieved some of the time pressure that typified the experience of past section editors. We have completed our initial review of the sections and section editor assignments. We plan to add additional section editors in dairy foods to accommodate the large increase in submissions. The additions will

Continued on page 6
help to balance the workload between the two sides of the journal (foods and production).

We continue to work on various projects, both big and small, that are designed to improve the journal and enhance the experience of our authors and readers. It has been brought to my attention that JDS manuscript reviews may be inconsistent with respect to length and scope. We plan to develop a set of reviewer instructions in an attempt to improve and standardize the reviews that you receive as an author. I believe that these instructions will be a valuable resource for those reviewing manuscripts for JDS, particularly younger reviewers with less experience. The instructions will not contain hard and fast rules but instead will explain the review process and define the factors to consider when preparing a review.

The Journal of Dairy Science will publish its 100th volume in 2017. To commemorate this historic milestone, we will publish a series of review articles in the December 2017 issue (final issue of volume 100). Each review articles will uniquely address a major theme in dairy science research, describing how the science and technology have changed over the life of the journal. Approximately 30 different topics have been selected. Authors were selected based on their stature, expertise, authorship experience, and historical knowledge. This elite group of scientists will create a unique and lasting mark in the published pages of our journal.

Other initiatives are too numerous to mention here, but they include the JDS Club 100, which includes authors with 100 or more publications in JDS. The club currently has 18 members, and we plan to recognize these individuals at the 2017 annual meeting in Pittsburgh. In cooperation with the ADSA Foundation, we have initiated a new program for Graduate Student Literature Review Awards that will enable some of this very valuable content to be published in the journal. We continue to publish symposium papers, where presenters at the annual meeting are invited to submit a paper to JDS based on their presentation. This year, 32 presenters accepted our invitation to publish their material. We also continue to increase the number of invited reviews. Our goal is to publish 24 invited reviews annually. We continue to explore the possibility of starting a second journal to address the tremendous volume of submissions coming into JDS. This second journal would have an online open access format not unlike many of the newer journals in production today. The name, scope, business model, and implementation timeline for the new journal are under consideration.

Thank you very much for your support of the Journal of Dairy Science. It is a pleasure to serve ADSA as the editor-in-chief of JDS, and I look forward to continued success of the journal.

Matt Lucy
JDS Editor-in-Chief
Graduate Student Division Update

The ADSA Graduate Student Division (GSD) Advisory Council (Hiral Vora, Matthew Borchers, Kristen Glosson, Elizabeth Eckelkamp, Karthik Pandalaneni, Brittany Casperson) and committee members have been working hard to create new opportunities for all GSD members to learn and interact not only at the annual meeting but throughout the membership year as well. Please continue reading to learn about our annual meeting events, as well as the other activities and opportunities we offer for all ADSA members. We encourage all graduate students to register for our events listed below.

At the upcoming annual meeting in Pittsburgh, GSD members will join the ADSA Student Affiliate Division on a tour of the Pittsburgh Zoo and PPG Aquarium on Saturday afternoon. Students will have the opportunity to get a glimpse behind the scenes with the zoo's animals, explore animal holding areas, and learn about animal care in a zoo environment.

On Sunday, graduate students can attend an exciting interactive workshop with the annual meeting keynote speaker, Ethan Schutz. Students will learn about human dynamics at work and how to get things done, solve problems, and collaborate with other people. Attendees will receive a copy of the book on which the session is based, titled The Human Element.

Monday brings a chance for graduate students to grab lunch and interact with a diverse panel of academia and industry professionals and even a few past GSD members! Students are encouraged to bring questions to the event because panel members will discuss their experience moving from graduate school to the professional world. This luncheon is intended to give attendees an informal environment in which to inquire about each professional's personal journey and the challenges they encountered along the way.

The GSD finishes up with a jam-packed Tuesday. Graduate student members are encouraged to take part in the return of the Three-Minute Thesis Challenge. This event will test each competitor's ability to quickly and concisely convey their research in a way that is understandable to all. Everyone is invited to attend the challenge to watch these students compete for cash prizes and present their research in a fun and exciting way! Entry details will be released soon.

Following the Three-Minute Thesis Challenge, all members are invited to the GSD Business Meeting and Open Forum. In addition to greeting the incoming GSD officer team and learning about upcoming events, you will have the chance to voice your ideas and opinions about ADSA graduate student activities.

Graduate students will cap off the meeting Tuesday evening with a mixer event planned by our social committee. Students can enjoy a fun night of entertainment and networking as we cheer on the Pittsburgh Pirates professional baseball team. The GSD members will sit together in a reserved block to enjoy a night of fresh air, ballpark food, and a chance to network with other graduate students and event sponsors!

Outside of the annual meeting preparations, the Graduate Student Division membership committee is working to increase our current membership of 379 graduate students and 44 transitional members. The GSD Facebook group has 449 members and is open to anyone who wants to learn more about the GSD and dairy industry. The communications committee has expanded Milk Talk Mondays to include Tip Tuesdays, Welfare Wednesdays, Technology Thursdays, and Member Spotlight Sundays on our page. Each post includes interesting dairy-related articles and facts. We have also started using our Facebook page to encourage students to network with each other at regional meetings. If you are not yet a member of this group, please consider joining today!

The GSD education committee has continued its webinar series by hosting two webinars this year. All past webinars can be viewed on the on the GSD Webinar Recordings and GSD Pioneers in Dairy Science web pages. To date, the GSD has recorded 19 webinars, with plans to continue the series each
year. Be sure to watch your email for future webinar announcements.

myDairy Career, the free online job resource center open to all ADSA members, has received a few updates from the career development committee to make the website more user friendly. We encourage all members to use this resource to post openings and search for dairy-focused jobs, post-doc positions, academic positions, and even graduate student internship opportunities. There are currently 81 candidate profiles and 50 job postings listed.

The quarterly GSD Newsletter continues be sent to all ADSA members, and all past issues can be found on our website. Each newsletter includes an Industry Spotlight, where we interview a dairy professional; Student Spotlights, which showcase GSD award winners or current officers; and the very popular International Spotlight article, where dairy industries around the globe are featured each quarter. If you are interested in writing an article about your home country or a country you have visited, please contact Kristen Glosson at kmglossen@gmail.com.

We are looking forward to rounding out this successful year with an amazing 2017 annual meeting in Pittsburgh! Please contact ADSA GSD President Hiral Vora at hiral218@gmail.com with any questions or ideas for improvement or if you would like to get more involved in the ADSA Graduate Student Division.

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DAIRexNET: Online Dairy Extension

**What is DAIReXNET?**

DAIReXNET is a national extension resource that provides science-based, peer-reviewed information for the dairy community through eXtension.org.

With about 602,000 page views over the course of the past year, DAIReXNET is an extension resource with broad reach. Visitors have spent an average of almost four minutes on each page and a collective 39,577 hours on these materials in the past year. These audience members are located all across the USA and in a variety of other nations.

**What Does DAIReXNET Have to Offer?**

When you visit DAIReXNET, you will find

- easily accessible educational dairy videos,
- practical articles on various dairy topics,
- expert-created, peer-reviewed resources,
- educational tools for classes and extension programs, and
- producer- and industry-oriented newsletter content.

DAIReXNET also offers a venue for publishing sound, science-based, producer- and industry-friendly resources written by experts like you. All articles for this national extension publication are peer reviewed. You can contribute by writing, reviewing articles and other materials, or joining our management team. DAIReXNET is also available for collaboration on delivery of research findings to extension audiences. For more information, contact Donna Amaral-Phillips at damaral@uky.edu or Nancy Mc-Gill at nancy.chenault@uky.edu.

**Tools for Educational and Extension Programs**

Our articles and videos make great supplemental materials for courses and programs directed toward a wide range of audiences; undergraduate and graduate students, extension educators, youth, allied industry personnel, and dairy producers can all benefit from our resources. Many of these resources are suited for use in newsletters and other publications. Article topics cover all major aspects of dairy production, and some topics covered in past videos include

- herd-level ketosis management,
- silage management,
- metritis diagnosis and treatment,

Continued on page 9
• management of farm labor,
• farm safety considerations, and
• prevention of lameness.

You can find all of our past recordings in our dairy video archive. Recently converted and uploaded to YouTube, our catalog of past presentations is easily accessible from any location. Almost all of these videos have been approved for ARPAS credit, which can be used to fulfill IA-CUC requirements at some institutions.

**Exclusive Feature Articles**

DAIReXNET has a long-running series of exclusive dairy articles, published on or near the first of each month. Focusing mainly on nutrition, this series also reaches into labor management, calf care, and other topics. All currently available articles in this series are listed here, and most are perfect for use in newsletters and other publications. Some of the topics we have covered include the following:

• Responsible Use of Antibiotics for Treatment of Clinical Mastitis
• Targeting Dairy Feeding Programs for Less Feed Waste or Shrink
• Feeding Practices for Dairy Cows Milked with Robotic Milking Systems
• Simplified Scoring System to Identify Respiratory Disease in Dairy Calves
• Real World Vitamin Recommendations
• Getting Dairy Cows Off to a Good Start—The SIP Principle with Colostrum

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Student Affiliate Division Update

The Student Affiliate Division (SAD) of ADSA has been actively involved in strategic planning, regional meetings, and program development for our annual meeting in Pittsburgh. Among the initiatives that resulted from the July strategic planning sessions in Salt Lake City were several related to SAD. On each of their fall conference calls, SAD took time to review the proposals and develop action items, including the following:

**Shift competition focus to professional development focus**

1. SAD also sought and received approval to offer the ARPAS exam for undergraduate seniors during the ADSA annual meeting.
2. SAD is working with DMI on a dairy advocacy session on Tuesday morning to include undergraduates and professional members.
3. Promote or sell opportunities within SAD to industry
4. SAD officers are actively recruiting industry reps to be round-table luncheon participants and judges.

**Emphasize importance of SAD to students, advisors, and university faculty and administration**

1. Officers have promoted SAD at regional and national Dairy Challenges and at regional SAD meetings.
2. Each year, a SAD officer speaks at the 4-H Dairy Conference for high school students from across the United States. Officers promote the value of a dairy science degree and involvement in a professional society (ADSA-SAD).
3. Each board member is responsible for posting items that are of interest to dairy students on the SAD Facebook page for a month, including club events, industry spotlights, officer information, dairy news, opportunities for undergraduates, and more.

**Maximize social media presence during and between the annual meeting**

1. SAD is working with Ken Olson to expand social media corps at the annual meeting to include UGS.
2. SAD worked with regional hosts to ensure posts were made during regional meetings.

If your company is interested in becoming more involved with the Student Affiliate Division, please contact Conor McCabe, SAD president, at cjmc356@cornell.edu or Molly Kelley, ADSA-SAD liaison, at mollyk@adsa.org.

Plans are well underway for the 2017 ADSA-SAD meetings in Pittsburgh. This year’s meeting will kick off on Saturday with an educational program at Pittsburgh Zoo.

Following the luncheon and officer candidate introductions, Sunday afternoon students will be competing in the Dairy Quiz Bowl, followed by the annual meeting opening session. At the start of Monday, students will hang the SAD posters and turn in yearbooks and scrapbooks. We will fill the rest of the day with SAD competitions and the new Undergraduate Student Career Roundtable luncheon. Monday night will be spent on a riverboat cruise. Tuesday we will have our business meeting, where we will elect our new officers; a workshop on social media; and the grand finale: our awards luncheon packed with award recognitions and announcement of the new SAD national officer team.

Regional meetings in the Midwest, Northeast, and South were a success. In all, almost 600 members of SAD participated in these regional meetings for 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.

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 Pittsburgh! For more information about ADSA-SAD, we invite you to visit https://www.adsa.org/Membership/StudentResources/StudentAffiliateDivision.aspx.
Discover Conference Series

The 31st Discover Conference, “Big Data Dairy Management,” was held November 1 to 4, 2016, at the Hilton Chicago/Oak Brook Hills Resort, Oak Brook, Illinois. The program committee consisted of co-chairs Jeffrey Bewley (University of Kentucky) and Christina Petersson-Wolfe (Virginia Tech), Stephen LeBlanc (University of Guelph), Alan Fahey (University College Dublin), Albert De Vries (University of Florida), Mike Overton (Elanco), Juan M. Tricarico (Innovation Center for US Dairy), and Miel Hostens (Ghent University).

Big data represents a potential management breakthrough for the dairy industry. The key components of big data are analysis, capture, data curation, search, sharing, storage, transfer, visualization, and information privacy. The Discover Conference format provided a great venue for exchange of information and ideas related to big data by academic and industry leaders.

The conference themes were
- introduction to big data,
- big data working already (from different perspectives),
- data analysis techniques,
- data integration and visualization, and
- sensor data and use.

There were 178 conference registrants, representing 31 US states, 13 countries, 25 universities, and numerous industry organizations. The conference was supported by 15 dairy industry-related sponsors, including six new Discover sponsors.

2017 Conferences

The 32nd Discover Conference, “Dairy Replacement Heifers: Transitioning from Weaning Through First Lactation,” is scheduled May 30 to June 1, 2017, at the Eaglewood Resort and Spa, Itasca, Illinois. The program committee members are Kristy Daniels, Virginia Tech (co-chair); Keith Poulsen, University of Wisconsin (co-chair); Geof Smith, North Carolina State University; Bob James, Virginia Tech (emeritus); Mike Van Amburg, Cornell University; and Hugh Chester-Jones, University of Minnesota.

The conference will serve as a follow-up to the very successful 2008 and 2013 calf conferences to examine new information available on issues pertaining to development and management of the dairy heifer. It will comprise focused discussions on the major stages of the heifer as it enters the milking herd. The conference themes are
- growth
- health and welfare
- management and profitability
- herd-level dynamics

The 33rd ADSA Discover Conference, “Integrated Solutions to Fiber Challenges,” is scheduled for September 19 to 22, 2017, at the Westin Chicago Northwest, Itasca, Illinois. The program committee members are Mary Beth Hall, USDA-ARS, US Dairy Forage Research Center (co-chair); Jim Tully, Pine Creek Nutrition Service (co-chair); Marit Arana, A.L. Gilbert Company; William Stone, Diamond V; Richard J. Grant, William H. Miner Agricultural Research Institute; Carl Old, A3 Cattle Company; and Ronald Hatfield, USDA-ARS, US Dairy Forage Research Center.

The conference is being developed to integrate plant requirements, rumen microbiology, and animal requirements through presentations, discussion groups, and panel sessions. Expected participants include members of the dairy science community interested in the effect of nutrition, physiology, and management of fiber on animal performance. The conference themes include plants and climate; animals and analysis; animal and fiber interactions: Impact of the plant on the animal and Getting the most out of fiber; and modeling animals and fibers.

2018 Conferences

Topics for 2018 conferences are being evaluated, including “Protein-Energy Interactions.” Information related to registration and programs for Discover Conferences are available at http://www.adsa.org/discover. Please note the sponsor logos for each conference on the Discover website. Sponsor contributions help ensure the success of a conference and are greatly appreciated.
The ADSA Foundation continues to be active in its pursuit of providing educational and scientific activities for the betterment of the dairy industry.

The *Large Dairy Herd Management* ebook is in the final stretch. Almost all chapters have been reviewed and submitted, and the FASS staff is busy editing and proofing the final content. We are looking forward to completing this large project and launching this ebook later this year.

The 31st Discover Conference on *Big Data Dairy Management* was held in November 2016. Thank you to the attendees, sponsors, and members of the organizing committee, which included Jeffery Bewley, Christina Petersson-Wolfe, Stephen LeBlanc, Alan Fahey, Albert De Vries, Mike Overton, Juan M. Tricarico, and Miel Hostens. The meeting was a great success. The conference was a sellout, with people attending from 31 US states and 13 countries. Conference scores were again excellent, with the average scores for the talks exceeding 4 (scale of 1 to 5 with 5 being excellent). Attendees gave the Discover concept an average score of 4.7.

Interest is running high for the 32nd Discover Conference: *Dairy Replacement Heifers: Transitioning from Weaning Through First Lactation*. This conference will be held at the Eaglewood Resort and Spa in Itasca, Illinois, from May 30 to June 1, 2017. It will examine new information available on issues pertaining to development and management of dairy heifers. Topics under consideration include growth: biology, production potential, nutrition; health impact of disease on future production; management tools and strategies: genomics, welfare, custom heifer rearing; and profitability and herd-level dynamics.

The committee of James Tully, Mary Beth Hall, Marit Arana, William Stone, Richard Grant, Carl Old, and Ronald Hatfield is busy organizing the 33rd Discover Conference, which will be held September 19 to 22, 2017, at the Westin Chicago Northwest in Itasca, Illinois. The topic is *Integrated Solutions to Fiber Challenges*. It will integrate plant requirements, rumen microbiology, and animal requirements. Members who are interested in the effect of nutrition, physiology, and management of fiber on animal performance should plan to attend this conference.

The ADSA Foundation is starting a new initiative—the ADSA Foundation Graduate Student Literature Review Awards. These awards will annually recognize the work of four graduate students—two doctoral candidates and two master’s candidates—in two categories, dairy foods and dairy production. Within six months of successful thesis defense, graduate students should submit literature reviews to the *Journal of Dairy Science*. These reviews will undergo standard, blinded peer review and be published as invited reviews, with pages charges for the first 10 pages waived. All reviews that are accepted via the regular peer-review process will be published in the journal.

Reviews accepted within the previous two years will be considered for the award. The ADSA Foundation expects to present the first Graduate Student Literature Review Awards in 2019, meaning all literature reviews accepted between January 2017 and January 2019 would be eligible for awards. From the submitted reviews, a panel of judges will select the best, and winners will receive a plaque and a $1,000 cash prize.

In February 2017, the ADSA Foundation held a brainstorming session on meeting the need of industry and academia for people with a PhD degree. The take-home message from the session was that although the supply of people with a PhD in specific disciplines might be an issue, it did not seem to be an industry-wide problem. Funding of PhD programs and maintaining departments seems to be the biggest issue. If any members have any additional thoughts on this matter or how the Foundation...
could address this issue, please send them to the members of the Foundation board.

Finally, we would like to thank the many people who are working to help the ADSA Foundation accomplish its mission. First, we thank the ADSA and FASS staffs for the help they have given us in pulling together the *Large Dairy Herd Management* ebook. Second, we thank the organizers of the 31st, 32nd, and 33rd Discover Conferences for the time and effort they have put into organizing these conferences. We also thank Molly Kelley and Larry Miller for their excellent work in organizing the Discover Conferences. Third, we thank Dave Beede and his team of section editors, chapter authors, and reviewers for their work on the *Large Dairy Herd Management* ebook. Finally, we thank the members of the dairy industry for their generous sponsorships of the *Large Dairy Herd Management* ebook as well as the Discover Conferences. Your generosity is greatly appreciated.

Mike Socha  
ADSA Foundation Chair

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**Do You Have S-PAC® In Your Pocket?**

As ADSA members, we have access to two of the top dairy information resources in the world. The best known is the *Journal of Dairy Science*, the top rated journal in its field, and the other is the Searchable Proceeding of Animal Conferences (S-PAC). If you have searched abstracts from past ADSA annual meetings, you have had a taste of what S-PAC can do, but have you checked out the real power of this information tool? S-PAC, the largest online collection of animal and dairy foods conference proceedings in the world, is a unique, user-searchable database. It allows subscribers to search all conferences in the database in a single pass for the specific information needed. It works on your computer, tablet, or smartphone, so you have access whenever and wherever you need it.

Each year, many state, regional, national, and international conferences are held for producers, agricultural professionals and scientists where cutting-edge research and management information is provided. Frequently, the first, and sometimes the only, place this information appears is in the conference proceedings. S-PAC was established as a convenient portal to the wealth of valuable information available from these conferences. It benefits conferences by 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. The reach of S-PAC extends around the globe; subscribers include dairy professionals from the United States and 35 other countries.

There are currently 605 proceedings from 61 different conferences available to subscribers. For several conferences, S-PAC is the only place the proceedings are available electronically. Recent additions include those from the Congress on Gastrointestinal Function and its predecessor, the Conference on Rumen Function. A few well-known national conferences available on S-PAC include the American Association of Bovine Practitioners (AABP), the Western Dairy Management Conference, the Four-State Dairy Nutrition and Management Conference, the Cornell Nutrition Conference, and the Western Canadian Dairy Seminar. We have a growing selection of international conferences, including the International Symposium on Dairy Cattle Nutrition (Wageningen), the International Symposium on Dairy Cow Nutrition and Milk Quality—Beijing, China, the International Colloquium on Paratuberculosis (ICP), and those from the EAAP. New conferences and additional proceedings are added frequently, making S-PAC a tool of ever-increasing value. The access to cutting-edge, real-world research presented in the proceedings make 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 mem-

Continued on page 14
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 that are sitting on your bookshelf and paging through them for information that you need, or checking numerous websites for information that you think may have been presented at a conference, a visit to S-PAC allows you to rapidly search all proceedings in the database for the information you need.

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. You can test drive the system at the special rate of $5 for 5 days. This allows you full access to the system as many times as you would 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, which will take you through the FASS e-commerce area to become an S-PAC subscriber. 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 at keolson@prodigy.net or Peter Studney at peters@adsa.org.

Remember, S-PAC is one of the many benefits of membership in the American Dairy Science Association® (ADSA). Why not put it to work for you now?

Kenneth E. Olson
Midwest ADSA/ASAS Report

We recently held the 2017 meeting of the Midwest Branch of ADSA and Midwestern Section of ASAS from March 13 to 15, 2017, in Omaha, Nebraska. Once again, the meeting offered a variety of symposia and abstract sessions. The Young Dairy Scholars and Young Animal Science Scholar awards and presentations continue to be an important part of the Midwest ASAS and ADSA meetings. The award program was held on the evening of Monday, March 13, 2017. In addition, the ADSA Young Scholars presented invited papers throughout the meeting. The presentations included “Immunometabolic adaptations to lactation in pasture-based transition dairy cows can be regulated by preparatum nutritional strategies,” by M. Vailati Riboni; “Follicle dynamics and hormonal environment in a novel high fecundity genotype in cattle,” by A. Garcia-Guerra; “Intestinal barrier function involvement in inefficient nutrient partitioning,” by S. K. Kvidera; “The potential of calcium hydroxide treated corn stover for dairy cows,” by B. A. Casperson; “Effects of dietary factors and rumen pH on rumen biohydrogenation pathways and risk of milk fat depression,” by Y. Sun; “Manipulating early lactation energy and protein balances using canola meal as a protein source,” by S. A. E. Moore, and “Feeding peripubertal dairy heifers diets high in distillers grains with varying forage to concentrate ratios,” by A. K. Manthey. This year, the Extension Dairy Symposium on Tuesday afternoon (March 14) focused on the periparturient period of dairy cows and was titled “The optimization of the nutrition of transition dairy cows,” and was chaired by Kamal Mjoun. Members of ADSA spoke at the symposium, with presentations titled “The transition period in dairy cattle, physiology: An overview,” by Phil Cardoso; “Amino acids for transition cows,” by Chuck Schwab; “Vitamin supplementation strategies for transition dairy cows,” by Gonzalo Ferreira; and “New insights into calcium intake in transition dairy cattle,” by Laura Hernandez. Recognizing the accomplishments and achievements of our colleagues is an important part of the meetings. Numerous awards are presented each year at the Midwest meetings, including the Young Animal/Dairy Scientist Award for Teaching, Extension, or Research. This year, Phil Cardoso was recognized with the Young Animal/Dairy Scientist Award for Extension. Poster and oral competitions were available for undergraduate, MS, and PhD students. The Midwest Branch was represented by Phil Cardoso at the ADSA Strategic Planning Session held in Ft. Lauderdale, Florida, on February 3. It was an intensive day of thinking, as a group, about the future of our association as a whole.

Speaking of leadership, do not forget to cast your vote for the secretary of the ADSA Midwest Branch. This year, we are lucky to have Matt Akins from the University of Wisconsin and Johan Osorio from South Dakota State University as well-deserving candidates. The ADSA Midwest Branch current leadership is President Phil Cardoso, Vice-President Jim Paulson, and Secretary Jill Anderson. The section would like to thank Tamilee Nennich for her service as past president.

Phil Cardoso
ADSA Midwest President
ADSA Northeast Branch Update

The Northeast ASAS Section and ADSA Branch has a busy year planned, including a new Graduate Student Video Abstract Competition, continuation of awards, and some other adjustments.

Recorded media is increasingly being used in teaching, research, and extension, but graduate students have had few opportunities to build skills in this area. The Northeast Section is excited to start a Graduate Student Video Abstract Competition that will take the place of the completion that we previously held at the annual meeting. This will allow graduate students in the Northeast Section to present their research in a nontraditional format, use creative techniques and new technologies, and practice their scientific salesmanship. The five-minute videos should focus on an aspect of the student’s research and educate the viewer on the importance of the work to the field of animal science. Full details and submission guidelines will be available soon. For additional details, contact Sarah Reed (sarah.reed@uconn.edu).

We will also be continuing our Northeast Young Scientist Educator and Researcher Awards and Distinguished Service Award. A call for nominations will be made later this spring.

We plan to hold our annual business meeting by conference call. We continue to discuss how to serve the Northeast membership and appreciate your ideas. Current leadership is President Kevin Harvatine, Vice-President Sarah Reed, and Secretary-Treasurer Kasey Moyes.

We are seeking nominations for secretary-treasurer for the Northeast board, which is a three-year commitment that advances to president. We alternate leadership between years, with this year being an ASAS member. Please contact Kevin Harvatine if you are interested.

Kevin Harvatine
ADSA Northeast Branch President
ADSA Southern Branch Update

2017 Southern Branch Student Affiliate Division Meeting

On February 16 to 18, 85 students from 10 southeastern universities gathered in Baton Rouge, Louisiana, for the 2017 Southern Branch ADSA Student Affiliate Division (SAD) meeting. Clemson University, Louisiana State University (LSU), Mississippi State University, North Carolina State University (NCSU), Oklahoma State University (OSU), University of Florida (UFL), University of Georgia (UGA), University of Kentucky (UKY), Virginia Tech (VT), and West Virginia University (WVU) all sent students to participate in this year’s activities.

Awards were presented to the following participants in the Undergraduate Paper Presentations:

Dairy Production
1. Brian Young, West Virginia University
2. Sara Garbowski, Clemson University
3. Chelsea Folmar, University of Kentucky

Dairy Foods
1. Kayla Alward, University of Georgia
2. Brittany Bowman, Virginia Tech
3. Sarah Mac, University of Kentucky

Original Research
1. Carissa Womble, North Carolina State University
2. Catalina Mejia, University of Florida
3. Katie Kelly, University of Kentucky

Dairy Quiz Bowl Contest
1. Virginia Tech
2. University of Georgia

Website
1. North Carolina State University (http://ncsu-dairyscienceclub.my-free.website)
2. University of Florida
3. Virginia Tech

Scrapbook
1. University of Georgia
2. University of Florida
3. North Carolina State University

Outstanding Chapter
1. North Carolina State University
2. University of Georgia
3. Virginia Tech

Elected 2017–2018 Officers:
• President: Stanley Gaffrey, Oklahoma State University
• 1st Vice President: Brian Young, West Virginia University
• 2nd Vice President: Mary Wright, University of Georgia
• 3rd Vice President: Casey Kenny, Louisiana State University
• Secretary/Treasurer: Janna Cline, University of Kentucky
• Officer-at-Large: Carissa Womble, North Carolina State University

Attendees of the meeting also spent time on a walking tour of the LSU campus, a scavenger hunt, a visit to the Global Wildlife Center, and a tour of the LSU Dairy Farm.

It is anticipated that West Virginia will host the 2018 Southern Branch Student Affiliate Division meeting, but this is awaiting final confirmation.

Special thanks are extended to Kas Ingawa for sharing his summary of this event.

Southern Regional Dairy Challenge

The 10th Annual Southern Regional Dairy Challenge was held in Cordele, Georgia, from November 13 to 15, 2016. Participating schools included
Alabama A&M, North Carolina State University, University of Florida, Virginia Tech, Eastern Kentucky University, University of Georgia, West Virginia University, University of Mount Olive, University of Kentucky, and Tuskegee University. Before the contest, students toured the Pete Gelber Farm in Montezuma, Georgia. The University of Florida will host the 2017 Southern Regional Contest in mid-November 2017.

**Southern Branch Activities in Pittsburgh**

During the July 2017 annual meeting, the Southern Branch of ADSA will hold its annual graduate student paper contest, symposium, and annual business meeting. The business meeting will include minutes and a financial report, an announcement of graduate student paper contest and Honor Award winners, Student Affiliate Division news, a Dairy Challenge update, resolutions and necrology reports, and an announcement of the officer election results.

The Honor Award is presented annually to a member of Southern ADSA for distinguished service to the dairy industry. Nominations for the 2017 Southern ADSA Honor Award should be sent to Peter Krawczel at the University of Tennessee (pkrawczel@utk.edu). Nominations for this award will be accepted until May 31, 2017.

The 2017 Southern ADSA Symposium will be held in Pittsburgh on Monday, June 26. This year’s focus is on “Key Considerations for Improving Milk Quality in the Southeast,” and the symposium will include the following topics: The role of technology in quantifying mastitis related decisions (Jeffrey Bewley, University of Kentucky), The role of housing facilities and management in improving milk quality (Amanda Stone, Mississippi State University; and Peter Krawczel, University of Tennessee), Considerations for managing mastitis and milk quality on organic dairy farms (Keena Mullen, North Carolina State University), and Getting inside their heads: Dairy farmers’ attitudes and behaviors that affect milk quality (Susan Schexnayder, University of Tennessee).

Peter Krawczel  
Southern Branch President

**Coming soon ...**

**LARGE DAIRY HERD MANAGEMENT, 3rd ed.**

The ADSA Foundation is excited to announce that the third edition (ebook) of *Large Dairy Herd Management* will be published soon. The book includes 98 chapters in 15 sections: Large Herd Systems; Building Sustainability and Capacity; Facilities and Environment; Milk Markets and Marketing; Genetic Selection Programs and Breeding Strategies; Calves and Replacements; Reproduction and Reproductive Management; Nutrition and Nutritional Management; Lactation and Milking Systems; Mastitis and Milk Quality; Animal and Herd Welfare; Herd Health; Business, Economic Analysis, and Decision-Making; Effectively Managing Farm Employees.

The book will be available for purchase (at student and professional rates) exclusively from ADSA. This third edition is fully updated and includes numerous color figures as well as videos.

This third edition of the widely used textbook was edited by David K. Beede.
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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 2017 Annual Meeting. Membership will be valid through 12/31/2017.

**ADSA Professional Membership Dues**
$110

**ADSA Undergraduate Student Membership Dues**
$5

**ADSA Graduate Student Membership Dues**
$10

**ADSA Postdoc Membership Dues**
$55

2017 ADSA ANNUAL MEETING REGISTRATION

ADSA® Professional Members: Save $50.00 on registration fees by registering online by 11:59 pm on March 15, 2017, at [https://www.adsa.org/2017/reg.asp](https://www.adsa.org/2017/reg.asp)

**REGISTRATION FEES**

<table>
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<tr>
<th>Category</th>
<th>Before May 31</th>
<th>After May 31</th>
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<tr>
<td>ADSA or EAAP Professional Member</td>
<td>$495</td>
<td>$645</td>
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<td>Nonmember**</td>
<td>$600</td>
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<td>Fellow/Life Member</td>
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<td>Undergraduate Student Member</td>
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<td>Undergraduate Student Nonmember**</td>
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<tr>
<td>One-day registration</td>
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*Please note:* The 1-day option is single price and nonrefundable, and cannot be exchanged for another registration option.

**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 2017 Annual Meeting. Membership will be valid through 12/31/2017.

- ADSA Professional Membership Dues
- ADSA Undergraduate Student Membership Dues
- ADSA Graduate Student Membership Dues
- ADSA Postdoc Membership Dues

**REGISTER ONLINE:** [https://www.adsa.org/2017/reg.asp](https://www.adsa.org/2017/reg.asp)
# TICKETED EVENTS

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<th>Event Description</th>
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<td><strong>Saturday, June 24</strong></td>
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<tr>
<td>□ ADSA Student Tour: Zoo/PPG Aquarium</td>
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<td>□ SAD Shirt</td>
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<td>Circle size: S M L XL</td>
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<td><strong>Sunday, June 25</strong></td>
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<tr>
<td>□ Lactation Symposium</td>
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<td>□ Teaching Workshop</td>
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<td>□ Nutrition Models Workshop</td>
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<td>□ Bauman Symposium and Reception</td>
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<tr>
<td>□ Workshop: Impact of Raw Milk</td>
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<td>□ GSD Workshop: Building Strong Work Relationships to Be Effective</td>
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<td>□ SAD Undergraduate Midday Mixer</td>
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<td>□ Opening Session and Reception</td>
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<td><strong>Monday, June 26</strong></td>
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<tr>
<td>□ ADSA Production Division Extension Breakfast</td>
<td>$35</td>
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<td>□ Companion Tour 1: Beautiful Pittsburgh (includes lunch)</td>
<td>$60</td>
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<td>□ GSD Career Insights Lunch</td>
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<td>□ Undergraduate Career Roundtable Lunch</td>
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<td>□ Awards Ceremony</td>
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<td>□ Ice Cream Social</td>
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<td>□ Undergraduate Mixer: Riverboat Cruise</td>
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<tr>
<td><strong>Tuesday, June 27</strong></td>
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<tr>
<td>□ Fun Run</td>
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<td>Circle T-shirt size: S M L XL</td>
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<tr>
<td>□ Undergraduate Career Symposium: Science to Social (open to all)</td>
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<tr>
<td>□ Companion Tour 2: Flavor of Pittsburgh</td>
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<td>□ Production Division Business Meeting boxed lunch (lunch purchase optional)</td>
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<td>□ ADSA SAD Awards Lunch Professional</td>
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<tr>
<td>□ Student</td>
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<td>□ Iowa State University Reception</td>
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<tr>
<td>□ Purdue Animal Sciences Alumni Reception</td>
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<td>□ Penn State University Reception</td>
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<tr>
<td>□ CSAS Wine and Cheese Social</td>
<td>$10</td>
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<tr>
<td>□ ADSA GSD Mixer: Take Me Out to the Ballgame (Pirates vs. Rays)</td>
<td>$10</td>
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<td><strong>Wednesday, June 28</strong></td>
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<tr>
<td>□ Mixed Models Workshop (1.5 days)</td>
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<td><strong>Thursday, June 29</strong></td>
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<tr>
<td>□ Teagasc/Moorepark Cheese Workshop</td>
<td>$145</td>
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## ADA COMPLIANCE

ADSA chooses facilities that are ADA compliant. If you have any questions or concerns, please contact our office.

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## PAYMENT

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<th>Total Amount Due $</th>
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<td></td>
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<td>□ Discover</td>
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</table>

Card Number: 
Expiration Date: 
Signature: 

Note: The charge on your credit card statement will appear as “FASS”

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## CANCELLATION POLICY

Note: This cancellation policy does not apply to nonmember presenters. Abstract presenters must register by March 15, 2017; see pages 2 and 3 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 24, 2017, the registrant will receive a 90% refund. If the request is received after May 24, 2017, 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 which payment was made.

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## IMPORTANT DEADLINES

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Abstract Submission</td>
<td>February 21</td>
</tr>
<tr>
<td>Nonmember Presenter Registration</td>
<td>March 15</td>
</tr>
<tr>
<td>Early Bird Member Registration</td>
<td>March 15</td>
</tr>
<tr>
<td>(50 off professional member rate with online registration)</td>
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<tr>
<td>Housing</td>
<td>May 19</td>
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<tr>
<td>Early Registration</td>
<td>May 31</td>
</tr>
<tr>
<td>Advance Preload</td>
<td>June 22</td>
</tr>
</tbody>
</table>

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## 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/2017/reg.asp or complete and mail or fax this form with your check, money order, or credit card information to:

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Fax: 217-398-4119

Contact us:  
Phone: 217-356-3182  
E-mail: adsa@adsa.org
Future Meetings

32nd Discover Conference
Dairy Replacement Heifers: Transitioning from Weaning Through First Lactation
May 30–June 1, 2017
Eaglewood Resort and Spa
Itasca, IL

ADSA Annual Meeting
June 25–28, 2017
Pittsburgh, PA

33rd Discover Conference
Integrated Solutions to Fiber Challenges
September 19–22, 2017
Westin Chicago Northwest
Itasca, IL

2018 ADSA Annual Meeting
June 24–27, 2018
Knoxville, TN

2019 ADSA Annual Meeting
June 23–26, 2019
Cincinnati, OH

2020 ADSA Annual Meeting
June 14–17, 2012
Ft. Lauderdale, FL