2020 ADSA® Virtual Annual Meeting

The 2020 ADSA Virtual Annual Meeting is set to be the most comprehensive virtual dairy science meeting in the world. As you might imagine, this has been a challenging year. The overall program committee has worked diligently over the last year and especially over the last month. The meeting will not be what we had originally planned, but it will still be a great meeting. Our scientific program is designed to provide researchers, educators, extension professionals, students, and industry representatives a great venue to discover and discuss the latest ideas and findings in dairy science from all over the world.

The 2020 virtual meeting will feature approximately 400 recorded oral presentations and 450 recorded poster presentations. Each presentation will be associated with text chat to allow real-time discussion with the presenter; the text chats will remain on the meeting website for 2 months. Each oral presenter will have approximately 4 minutes for live Q&A by video. There will be no live symposia during the meeting; instead, the meeting will focus on original research from researchers worldwide. We will provide opportunities to discuss hot topics in the commercial dairy sector and in dairy research, extension, and education in live roundtable discussions with expert panels. Although most of these panel discussions have already been determined, please contact me (mikevh@msu.edu) as soon as possible if you have a strong desire to lead a discussion and find some panelists.

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2020 ADSA® Virtual Annual Meeting

In all of the live discussions, attendees can participate in text chats. In addition to the robust scientific program, ADSA Virtual Annual Meeting attendees will hear from association leadership and recognize our association members through an opening general session, awards ceremony, and closing general session. We applaud the student leaders of the Student Affiliate Division (SAD) and the Graduate Student Division (GSD) for their ingenuity in adapting their programs to the virtual format as well. A great lineup of quality programming is in store for undergraduate and graduate students.

The meeting begins Sunday, June 21, with the NANP workshop and the GSD business meeting. All prerecorded presentations will be available beginning at 12:01 am (EDT) on Monday, June 22. On June 22, 23, and 24, the live sessions will follow a similar schedule. Oral presenters (one-third each day) will be available for live text chats from 9:30 to 11:30 a.m. (EDT) and for live video discussions in half-hour blocks from 12 to 2 p.m. Poster presenters (one-third each day) will be available from 2 to 4 p.m. From 4 to 5 p.m. each day, we will have opportunities for attendees to participate in roundtable discussions.

Alas, we won’t have afternoon ice cream breaks or great conversations in the halls. On the bright side, however, you can wear your most comfortable clothes, have your favorite snacks and drinks at any time at a reasonable price, and sleep in your own bed! We look forward to seeing your name pop up on the meeting website in our chat rooms. We think you will find this meeting to be a great experience, and we hope you will join us.

Mike VandeHaar
Overall Program Chair

To learn more about the 2020 ADSA Virtual Annual Meeting or to register, please visit https://www.adsa.org/Meetings/2020-Annual-Meeting/Program. Most live programming will happen between 10:00 am and 2:00 pm Eastern Daylight Time (GMT/UTC –4). Miss a live event? Don’t worry — most live events will be recorded and available for on-demand viewing. Registration is free for all students (undergraduate and graduate). For professionals, the registration fee of $110 includes membership dues for 2020 (for nonmembers) or for 2021 (for ADSA members) — a $110 value!
Dear friends,

These are indeed unusual times. We are all challenged in many ways, but as in chaotic times before us, we continue to forge the way forward. At the time of this writing, I have just received the news that registration is open for the ADSA Virtual Annual Meeting. I am in awe and admiration of the hard work that many people have done to make this possible. I am particularly grateful to the overall program committee, the FASS director of membership and meetings, Cara Tharp, and our new executive director, Catharine Perry, all of whom have responded magnificently to these challenges. Having mentioned that most important news, I want to notify all of our members of three particularly good pieces of news.

First, we have a new executive director, Catharine Perry. She has immediately adapted and helped ADSA in these chaotic times. After a very intense search that spanned almost 4 months, the hiring committee (Trish Dawson, Susan Pollock, Mike VandeHaar, Geoff Dahl, and me) worked with the hiring company Vetted Solutions to recruit a top person with both experience in association management and a background in the dairy industry. Catharine has an impressive résumé; she holds a bachelor of science degree in agricultural economics from Purdue University and a certificate from Harvard Business School. She has 10 years of association management experience and most recently served as the vice president of member programs and services for the Global Cold Chain Alliance (GCCA), where, as a member of the senior leadership team, she oversaw association events, training, research, committees, and certification programs. During her tenure at GCCA she increased member engagement in programs and launched new initiatives, and she did all of it with a member-focused mindset. Prior to GCCA, she worked for the Animal Agriculture Alliance and the National FFA Organization and served as the California State FFA president. She started her appointment with ADSA in mid-April.

The second item is that we have published a record-breaking number of papers in JDS and that, prior to the COVID-19 pandemic, this year’s annual meeting had received more abstracts than any previous ADSA-only meeting. This is proof that ADSA continues to have growing participation nationally and internationally. The high level of scientific presentations also attests to the labor of forging the workforce of the future in our industry, where well-prepared professionals come to present their work and interact with other leaders in the field.

The third item that shows how ADSA is growing stronger to fulfill our goal of being the beacon of progress in science, education, and service for the global dairy sector is the imminent launch of our new journal, JDS Communications. This has kept our editors, especially Matt Lucy, very busy, and they, in conjunction with the FASS staff, are making great progress on this endeavor. We look forward to having all necessary official procedures completed by the annual meeting.

I hope that despite the challenges that we as an industry face today, our association will continue to play an important role as a center where we can interact with peers interested in dairy, whether production or processing, and where we continue to work toward a better future, better science, and better nutrition for all.

Rafael Jiménez-Flores
ADSA President
Letter from the JDS Editor-in-Chief

The *Journal of Dairy Science* (JDS) is an exciting component of the American Dairy Science Association, and it is, personally, an honor and pleasure to serve as the editor-in-chief. In 2019, we published volume 102 of the journal, which comprised almost 1,100 articles and a record number of pages—11,844. Strikingly, in addition to this growth, we saw our Impact Factor reach 3.082. This growth in size and impact would not be possible without the hard work and dedication of our many authors, reviewers, and editors. I also want to recognize our dedicated staff at FASS; their professional efforts solidify day-to-day operations and ensure that a world-class product is released each month. I also want to recognize our publishing partner Elsevier, whose efforts ensure that our readers are fitted with a cutting-edge scientific experience and who extend the reach of JDS worldwide.

In February 2020, the JDS editors traveled to West Palm Beach, Florida, for a two-day meeting. On the first day, editors participated in conversations about the field of scientific publishing. It was an honor to lead this session and to see firsthand the passion of our editors and how they strive to facilitate communications in the community of dairy science. On the second day, the journal’s editors were joined by members of the journal management committee and the ADSA board of directors for a strategic planning session. This session involved many spirited and thought-provoking discussions, and we look forward to implementing the innovative ideas put forth.

As announced recently, JDS is in expansion mode, as activities are currently underway to introduce the new journal, *JDS Communications*. This journal will be led by our past editor-in-chief Matt Lucy. Matt is the perfect leader for this groundbreaking initiative, with his experience as the JDS editor-in-chief during 6 years of unprecedented growth. *JDS Communications* will be 100% Gold Open Access and will publish short papers. The journal will be organized and managed using the same practices and procedures that are already established for JDS. We encourage our authorship to submit research studies that are perhaps narrower in scope than what is currently considered a full research article yet represent an important scientific contribution to the field of dairy science.

The journal will continue to grow and develop in 2020. Our aim is to attract the best authors, publish the highest quality science, and continue our long history as the leading source of new information in the dairy sciences. Our continued goals will be to shorten our time to publication and continue to improve the experience of our authors. Improvement in author experience will be in part sought by providing high-quality reviews, timely and professional technical editing after acceptance, and proactive measures to improve visibility after publication. Several weeks ago, we welcomed a new social media intern, Madison Wilson, who is an ag communications student at the University of Illinois. We look forward to working with Madison as she seeks to extend the journal’s reach into social media.

In closing, we expect 2020 to be yet another exciting and impactful year for JDS. As I settle in to my first year as editor-in-chief, I look forward to working with and hearing from you as we continue our work of publishing cutting-edge dairy science.

Paul Kononoff  
Editor-in-Chief  
*Journal of Dairy Science*  
pkononoff2@unl.edu  
https://twitter.com/rumen8er
Introducing JDS Communications!

The Journal of Dairy Science (JDS) has experienced rapid growth in the past decade. Most journals that experience rapid growth offer new titles to expand reach and readability. To better serve our authors, we are launching JDS Communications, a new open access journal for short communications, technical notes, hot topics, mini reviews, and select symposium papers from the annual meeting. Significant research findings will be published in short, concise papers that are limited to five published pages. We are particularly interested in focused, hypothesis-driven research papers with clear objectives and a specific question. JDS Communications will provide opportunities for existing authors to publish more content under the JDS brand and will provide new authors an opportunity to publish with JDS.

We anticipate launching JDS Communications this summer. Once the new journal is launched, JDS (“the mother-ship”) will no longer receive new submissions for short communications, hot topics, or technical notes. These article types will go to JDS Communications. Authors who have an article submitted to JDS and in review will be offered the opportunity to publish their article in JDS or move it to JDS Communications. We are waiving the open access charges for the first 25 articles published in JDS Communications as an incentive to our inaugural authors.

JDS Communications is not just a new home for short communications in JDS. It is an entirely new journal with its own section editors and editorial board. We are aiming for rapid turnaround and a short total time to publication. In addition to research articles, we will allow mini reviews—unsolicited short review papers that are limited to five published pages. JDS Communications will be online only with Gold Open Access. There will be a flat-rate open access fee of $750 per article for ADSA members and $1,200 per article for nonmembers.

The journal will be organized and managed using principles and procedures that are already established for JDS: ADSA members will act as editors, FASS will edit and compose accepted papers, and Elsevier will publish. Susan Pollock will be the managing editor, Louise Adam will be the lead technical editor, and Shauna Miller will be the administrative editorial assistant. JDS Communications authors will receive the same high-quality service that you have come to expect from JDS.

The initial editorial team will consist of me (Matt Lucy; editor-in-chief and Physiology section editor) and four additional section editors. MaryAnne Drake (North Carolina State) will lead Dairy Foods; Pam Ruegg (Michigan State) will lead Health, Behavior, and Well-Being; Jennie Pryce (La Trobe University) will lead Genetics; and John Roche (NZ Ministry for Primary Industries) will lead Animal Nutrition and Farm Systems. These individuals were selected based on their past service as JDS section editors, their extensive expertise within their respective fields, and their broad understanding of dairy science.

I hope that you as authors, readers, and reviewers will support this exciting new journal for research in the dairy sciences. I appreciate the efforts of the many people who have come together to create this new journal that will serve the global dairy science community.

Matt Lucy
Editor-in-Chief
JDS Communications
Letter from the ADSA Foundation Chair

As I enter the home stretch of my first year chairing the ADSA Foundation, I continue to marvel at the breadth and depth of expertise of the ADSA, FASS, and Discover Conference program staff who carry out much of the work of the foundation. I also marvel at the willingness of ADSA professional members to rise to the occasion and accept the call to service and leadership in key foundation initiatives. Nowhere has this been more evident than in the planning, and now execution, of the International Symposium on Ruminant Physiology (ISRP) 2024. In my last newsletter update (October 2019), I reported that the ADSA board of directors, with the unanimous approval of the ADSA Foundation board to provide organizational and financial support, submitted a bid to host ISRP 2024. Preceding the submission of the bid, Larry Miller and Molly Kelley had conducted an extensive assessment of the financial and logistical feasibility of hosting this very large, very complex, and very costly global gathering that takes place every 5 years. Their due diligence paid off when on December 19 we received word that ADSA’s bid to host the meeting had been accepted.

Now the real work of ISRP 2024 commences. Of utmost importance is the seating of the organizing committee, a team of scientific experts from various fields who will oversee the broad range of symposium themes that are presented during this three-and-a-half-day meeting. The importance of this team of expert volunteers to the success of the symposium cannot be overstated, and I deeply appreciate the leadership of Kevin Harvatine, Bob Van Saun, and others who have already stepped forward, as well as those who will step forward. One of the exciting features of ISRP 2024 involves the breadth of its scientific content, which extends significantly beyond dairy to include other aspects of ruminant physiology such as beef and small ruminants. Therefore, it is important to reiterate ADSA’s role in hosting ISRP 2024. As the next steward of this global meeting, our role is to serve our colleagues and stakeholders, both dairy and nondairy, by making this the best event that it can possibly be. To that end, we need the help of our colleagues in nondairy areas of ruminant physiology: to serve on the organizing committee; to share their expertise as speakers; and to labor side by side with ADSA in service to the global community of animal scientists. We live in a time of unprecedented opposition to animal agriculture worldwide, and the impetus for scientific organizations that support animal agriculture to work together for the good of humanity has perhaps never been greater. The ISRP is a wonderful opportunity to do this on global scale every 5 years.

Finally, there are endlessly complex “nuts and bolts” that go into hosting a meeting of this magnitude: evaluation of venue options and determination of best fit and best value; contract negotiations; and a million logistical details that must be researched and decisions that must be made. Again, I marvel at the experience and talent of the team that has risen to take on these challenges, led by Cara Tharp, Jeremy Holzner and the FASS staff, and Larry Miller and Molly Kelley. The symposium is in good hands and, as foundation chair, I continue to sleep well at night.

Paul Kindstedt
ADSA Foundation Chair
Put the LDHM e-book to work for you

Do you have your copy of the Large Dairy Herd Management (LDHM; 3rd ed.) e-book? 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 as it covers all aspects of dairy farm management.

Past editions of LDHM have been among the most widely used dairy information resources in the world. This edition uses modern technology to help meet the growing need of dairy farmers, service professionals, and students around the world for current science-based information. It brings peer-reviewed dairy science and management information to users in a readily accessible, easy-to-use format. It includes 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 the metric and imperial versions in both file formats may be downloaded.

The e-book includes 97 chapters in 15 sections. Detailed information about the sections, section editors, and book sponsors, a preview of the book, videos, and other information about the e-book are available at http://ldhm.adsa.org/. If the full book is more than you need, individual sections can now be purchased. This allows dairy science classes and professionals with a particular focus to get the specific information they need. 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 (3rd ed.) is available for purchase at student and professional (member and nonmember) rates exclusively from ADSA.

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

**Students**  
- Undergrad and graduate: $62.50

**Individual Sections**  
- ADSA members: $15  
- Nonmembers: $20

The discounted member price is one of our many ADSA member benefits. To purchase the full e-book or individual sections, visit the LDHM website (https://ldhm.adsa.org/), click on “Purchase,” follow the links that will take you through the FASS e-commerce area to complete the purchase, and add the e-book to your information toolbox.

Kenneth E. Olson
On November 4, 2019, the Northeast ASAS/ADSA Branch hosted its second-annual regional meeting. The meeting was held in conjunction with the Penn State Dairy Cattle Nutrition Conference in Hershey, Pennsylvania. The meeting featured discussions regarding crossbreeding dairy cows to generate calves for the beef supply chain. We had 52 registered attendees at the meeting, including 11 members and 17 graduate students.

At the meeting, graduate students participated in a competitive poster session. We recognized several outstanding student presentations, including 3 master’s presentations (first place: Sergio Welchez, Pennsylvania State University; second place: Bailey Basiel, Pennsylvania State University; third place: Alberto Lopez, Pennsylvania State University) and 3 PhD presentations (first place: Pedro Carvalho, Pennsylvania State University; second place: Cesar Matamoros, Pennsylvania State University; third place: Brandon Smith, University of Connecticut).

In addition, the board recognized Samuel Alcaine with the Young Scientist–Educator Award and Terry Etherton with the Distinguished Service Award during the annual business meeting.

The Northeast ASAS/ADSA board members appreciate the opportunity to serve our organizations at the regional level. If you have suggestions for our board, I welcome them!

Tara L. Felix
Northeast ASAS/ADSA President
ADSA Midwest Branch Report

First, I hope you and your families are all safe during this time. This update reviews the recent annual meeting and the request for input regarding the future meeting of the ADSA Midwest Branch. The 2020 Midwest ADSA/ASAS Annual Meeting was held March 2 to 4, 2020, in Omaha, Nebraska. The 2020 meeting included a number of symposia, scientific sessions, graduate student activities, and networking. The graduate student directors (Amy Petry and Miriam Martin) organized two activities, including a networking breakfast and a meal-packing activity to support a local charity, with great opportunities to meet industry and academic colleagues.

We recognized 11 Young Scholar Award winners during the Monday evening session (3 Young Dairy Scholars and 8 Animal Science Young Scholars). The Young Dairy Scholars also presented invited presentations during specific sessions that best fit their research. These presentations included “Immune Activation and Its Effects on Energetics and Calcium Homeostasis,” presented by Erin Horst of Iowa State University; “Immunometabolism During Periods of Negative Nutrient Balance or Heat Stress is Altered by Dietary Methyl Donor Supply in Dairy Cows,” presented by Danielle Coleman of the University of Illinois; and “Protein and Amino Acid Nutrition in Fresh Cows,” presented by Alex Tebbe of The Ohio State University. Congratulations to these outstanding students!

The Midwest Academic Quadrathlon was a success, with 12 teams participating and several teams traveling a significant distance to participate in the competition. Much appreciation is given to the University of Nebraska–Lincoln faculty and students who helped coordinate the lab and presentation events in addition to a great dinner on Sunday. The exam and quiz bowl sections were held on Monday, and the quiz bowl finals were held Monday evening. The overall winner was University of Missouri–Columbia, with Iowa State University taking second place and University of Findlay in third place. Congratulations to all the teams competing, and we look forward to next year’s competition. We extend a special thanks to Scott Radcliffe (Purdue University) for planning and organizing the event and to all the advisors and judges for their time to make this happen for the students.

On Tuesday, two dairy-specific symposia were held, including the David Schingoethe symposium and the dairy translational symposium. The Schingoethe symposium included talks on the use of nonforage fiber sources by Paul Kononoff, ways to improve margins through improved feeding management by Mike Brouk, and pathogenic bacteria contamination and control in silage by Jesse Thompson. The dairy translational symposium included invited presentations on impacts of employee training on milk quality by Mirielle Chahine, teaching animal-handling skills by Heidi Carroll, and control of spore-forming bacteria in milk by Andreia Bianchini. A number of other interesting sessions on management nutrition, physiology, and behavior were presented at the meeting. At the awards and business meeting on Tuesday evening, we honored a number of deserving colleagues and the winners of the undergraduate, MS, and PhD competitions. It was great to meet with attendees and learn of exciting new research being done within the Midwest area!

Recently, the Midwest ADSA Branch board sent an email to the membership asking for input on future meeting plans, including whether to continue participating in a joint meeting with the Midwest ASAS Section. This was in response to the low ADSA member participation and presentations at the meeting during the past few years. In response to the survey results, the ADSA board voted to end support for the Midwest meeting. We appreciate all of

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those who provided input. I thank the current board leadership for their service and assistance this past year, including Brad Heins (University of Minnesota) as vice president, Maristela Rovai (South Dakota State University) as secretary, Kevin Herrick (POET Nutrition) as director, and Tim Safranski (University of Missouri) as ADSA/ASAS director-at-large. Once we determine future meeting plans, we will finalize a ballot for board candidates to fill open seats on the board for this year. Please consider volunteering to be a part of the Midwest ADSA Branch board, as your service is vital to planning the meeting and is much appreciated. Take care, and I wish you all good health during this time!

Matt Akins
Midwest ADSA Branch President

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**Key ADSA Staff**

Need to contact the ADSA business office with membership renewal questions? Invoices? Address changes? Annual meeting registrations? Award information? Journal subscriptions? Editorial questions?

**General society questions:**
Contact Vicki Paden, ADSA administrative assistant, by email: vickip@assochq.org or phone: 217-356-5146 ext. 110, or Morgan Montgomery, ADSA executive assistant, by email: morganm@assochq.org or phone: 217-356-5146 ext. 156.

**Journal policy, copyright, and licensing questions:**
Contact Susan Pollock, managing editor for JDS, by email: susanp@assochq.org or phone: 217-356-3182 ext. 152.

**JDS style and form questions and manuscript submission requirements:**
Contact a technical editor by email: journals@assochq.org.

**Manuscript Central questions:**
Contact Shauna Miller, JDS editorial assistant, by email: shaunam@assochq.org or phone: 217-356-3182 ext. 139.

**ADSA Foundation questions:**
Contact Catharine Perry, ADSA executive director, by email: catharinep@adsa.org or phone: 217-239-3330.

**Discover℠ Conference questions:**
Contact Larry Miller, director, ADSA Discover Conferences, by email: larryrmiller@atlanticbb.net or phone: 443-262-8270, or Molly Kelley, coordinator, ADSA Discover Conferences, by email: mollyk@adsa.org or phone: 217-684-3007.

**S-PAC questions:**
Contact Ken Olson by email: keolson@prodigy.net or phone: 630-237-4961.

**ADSA Undergraduate Student Affiliate Division:**
Contact Molly Kelley, coordinator, ADSA Student Affiliate Division, by email: mollyk@adsa.org or phone: 217-684-3007.

**ADSA Graduate Student Division:**
Contact Holly Miller, coordinator, ADSA Graduate Student Division, by email: hollym@assochq.org or phone: 217-239-3323.
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 virtual annual meeting. This year, ADSA-SAD is offering a program that encourages member participation in scientific programs as well as continuing and improving networking opportunities for our members, all while being offered on a virtual platform!

Regional meetings in the Midwest, Northeast, and Southern regions were held in January and February. More than 600 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 attending the national meeting. This year, a national SAD officer spoke at each regional meeting to encourage attendance at the annual meeting.

The SAD board has been working on the following initiatives:

1. **Encourage collaboration between SAD and professional ADSA members**
   - Encourage SAD members to sign up for a ticketed mentoring session.
   - Continue the successful ADSA mentoring sessions, where SAD members gain key advice pertaining to graduate school, networking, and career searching.

2. **Continue to be present in the industry and develop presence**
   - Each board member is responsible for a month of posting items of interest to dairy students on SAD’s Facebook page, including club events, industry spotlights, meet your officers, dairy news, opportunities for undergrads, and more.
   - Continue the highly successful career roundtable luncheon and invite speakers from industry, the Graduate Student Division, and SAD alumni.
   - Provide an educational workshop where members can gain key insight and communication skills when addressing animal rights activists.

As part of the transition to a virtual meeting, SAD had to determine which of our programs could be held virtually and which programs could not. Subsequently, the highly anticipated Dairy Quiz Bowl has been postponed to 2021. The SAD scrapbook competition has been postponed as well. However, SAD determined that many of our other programs could make the transition virtually! This will include the undergraduate poster and paper presentations, outstanding student and advisor awards, and yearbook, website, and annual report judging.

In addition to the virtual competitions, SAD will be hosting various virtual seminars. This will include a workshop on addressing animal rights activists and a presentation outlining how SAD members can navigate the job market during the COVID-19 pandemic. The annual career roundtable and mentoring sessions will be offered to SAD members as well. Our virtual awards luncheon will be packed with award recognitions and the announcement of the new SAD national officer team.

The ADSA professional member and industry support of SAD is highly appreciated. We are currently securing judges for the undergraduate 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 our upcoming virtual meeting! For more information about ADSA-SAD, we invite you to visit www.adsa.org/sad. If your company is interested in becoming more involved with SAD, please contact Jack S. Myers, SAD president, at jorozco@iastate.edu, or Molly Kelley, ADSA-SAD liaison, at mollyk@adsa.org.

Jack Myers
2019–2020 SAD President
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. The GSD advisory council has worked diligently to provide exciting programming at and beyond the ADSA Annual Meeting. The upcoming virtual annual meeting offers unique opportunities for graduate students to develop scientifically, socially, and professionally. I highly encourage your peers who are not currently ADSA GSD members to sign up to attend the meeting at no cost to learn more about the premier dairy science research presented at this meeting!

Our programming begins before the official meeting start time with our GSD Business Meeting at 5:00 p.m. EDT on Sunday, June 21. Please join us to learn about our yearly programming and express your ideas for continued improvement. The meeting will be live and recorded for future comments. Also mark your calendars for Sunday evening at 8:00 p.m. EDT for a virtual GSD social! Although the scene might look a little different this year, we are excited to host live virtual trivia and hope you will come join the fun.

Our GSD Writing Workshop will be hosted live and recorded on Monday, June 22, at 2:00 p.m. EDT. We are very excited to be hosting Vernetta Williams of Cultivate the Writer. In this workshop, Dr. V. will give an overview of the various sections of a thesis or dissertation. Students will receive tools and resources for organizing, writing, and completing the thesis or dissertation section by section as well as tools for correcting common writing mistakes. This workshop is well suited for graduate students at all stages of the writing process, undergraduates considering graduate school, and professional members interested in promoting student writing skills. The Three-Minute Thesis Challenge will be hosted on Monday; we will soon be looking for presenters, and all GSD members are welcome to apply. This competition encourages students to convey their research in a concise and compelling manner that will resonate with a lay audience. Cash prizes will be awarded to the top presenters and to the winner of the people’s choice award.

We are thrilled to offer live virtual Mix and Mingle events on Tuesday, June 23, at 10:00 a.m. and 8:00 p.m. EDT. These interactive events allow graduate students and professional members the opportunity to interact with peers and professionals through a series of casual conversations. Students seeking employment are highly encouraged to attend. We will be sending out a sign-up survey with additional details. We will hold our live and recorded GSD Career Insights Panel on Tuesday afternoon. Students will enjoy a discussion session with a panel of dairy production and foods leaders. Come with questions and listen to some expert advice on each professional’s personal journey and the challenges encountered along the way. Although the luncheon portion will be a little different this year, we hope to provide students a fun dairy recipe to create and enjoy during the panel.

Outside of annual meeting events, our career development committee hosted a well-attended webinar in February pertaining to challenges faced in the dairy industry. Please visit the ADSA GSD website to access the recording. Our newsletter has switched from quarterly to biannual in the winter and summer. Newsletter archives can be found on the website as well. 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. Also, do not forget to check out myDairy Career, our free online job resource center for jobs pertaining to industry, academia, post-doc positions, and internships.

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The GSD is always working to recruit new members. Currently, our membership consists of nearly 450 graduate students and 24 transitional members. We are hoping to grow our membership through this unique opportunity of a no-cost meeting for students, so please spread the word! If you will be graduating soon, consider our transitional membership option and email gsd@adsa.org if you are interested. We are happy to have interacted with many of you via our social media platforms on Facebook, Instagram, Twitter, and LinkedIn. Please join us there for updates on our upcoming events! We also use these sites to celebrate student accomplishments such as paper publications and ADSA awards, share career opportunities, and learn more about topics in the dairy industry. Thank you for the great year, and we look forward to seeing you all virtually!

Bethany Dado-Senn
2019–2020 GSD President

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2020 ADSA
Corporate Sustaining Members

Ag Processing Inc.
ANDHIL LLC
Arm & Hammer Animal Nutrition
Dairy Nutrition Plus
Darling Ingredients Inc.
Diamond V
Elanco Animal Health
Global Agri-Trade Corporation
Grande Cheese Company
Lallemand Animal Nutrition
Pioneer
QualiTech Inc.
Renaissance Nutrition Inc.
Zinpro
Zoetis
Zook Nutrition & Management Inc.
Discover Conference Series

Previous Discover Conferences

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

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

Conference demographics:
- 160 registrants
- 25 US states and 17 countries represented
- 41 international registrants
- 22 universities from 14 states and 8 countries
- Industry registrants from 23 states and 13 countries
- 14 sponsors
- 22 poster abstracts displayed

The 38th ADSA Discover Conference, “Automation in the Dairy Industry,” was scheduled to be held May 11 to 13, 2020, in Itasca, Illinois. Program committee members were Marcia Endres, University of Minnesota (co-chair); Mathew Haan, Pennsylvania State University (co-chair); Trevor DeVries, University of Guelph; Jeffrey Bewley, Alltech; and Douglas Reinemann, University of Wisconsin.

Conference themes were planned to include automation on dairy farms, robotic and automatic milking, and future automation. The 38th ADSA Discover Conference was canceled because of restrictions due to COVID-19. The conference will not be rescheduled, and lodging and registration refunds were issued. A thank you was extended to conference registrants, speakers, sponsors, and the program committee for their contributions.

Future Discover Conferences

The 39th ADSA Discover Conference, “The Transition Period—From Physiology to Management,” is scheduled for October 26 to 29, 2020, in Itasca, Illinois. Program committee members are Stephen LeBlanc, University of Guelph (co-chair); Phil Cardoso, University of Illinois (co-chair); Heather M. White, University of Wisconsin; Joe McFadden, Cornell University; Buzz Burhans, Dairy-Tech Group; and Katy Proudfoot, University of Prince Edward Island.

The conference will focus on the scientific advancements made in the 10 years since the previous Discover Conference related to this topic was held, including a discussion of the unanswered questions and controversies about this critical period bridging the fundamental science to application.

Conference themes include the following:
- Physiology
- Inflammation and immune function
- Management and feeding
- Monitoring and analysis
- Health

Note: We are closely monitoring the evolving COVID-19 pandemic and will be prepared to adjust the onsite program should it become necessary.
The 40th ADSA Discover Conference, “2021 Nutrient Requirements of Dairy Cows,” is scheduled for June 1 to 4, 2021, at the Eaglewood Resort and Spa, Itasca, Illinois. Program committee members are Bill Weiss, The Ohio State University (co-chair); Rich Erdman, University of Maryland, Emeritus (co-chair); Paul Kononoff, University of Nebraska; and Mary Beth Hall, USDA-ARS.

The National Academies of Sciences, Engineering, and Medicine (NASEM) anticipates the 2021 release of the eighth revised edition of Nutrient Requirements of Dairy Cattle, the world’s most highly cited reference on dairy cattle feeding. This conference will focus on the scientific advancements in dairy cattle feeding used in revising the 2001 edition. The NASEM subcommittee members will address the substantive changes in the nutrient requirements and the conceptual approaches used to make those changes.

Potential conference topics include dry matter intake, energy, carbohydrates, fat, minerals and vitamins, protein and amino acids, transition cows, water and feed composition, growing heifers, calves, environmental impacts, and model use and equations.

Follow-Up to Previous Discover Conferences

The 36th ADSA Discover Conference, “Lipids in Dairy Nutrition: From Feed to Milk Fat,” was held May 28 to 31, 2019. Conference co-chairs were Kevin Harvatine, Pennsylvania State University, and Tom Jenkins, Clemson University. A roundtable discussion titled will be presented during the 2020 Virtual Annual Meeting.

The 37th ADSA Discover Conference, “Natural Bioactives in Dairy Production: Science, Functions, and the Future,” was held October 28 to 31, 2019. Conference co-chairs were Todd Callaway, University of Georgia, and Johan Osorio, South Dakota State University. A roundtable discussion will be presented during the 2020 Virtual Annual Meeting.

The 38th ADSA Discover Conference, “Automation in the Dairy Industry,” was scheduled to be held May 11 to 13, 2020. Conference co-chairs were Marcia Endres, University of Minnesota, and Mathew Haan, Pennsylvania State University. A roundtable discussion will be presented during the 2020 Virtual Annual Meeting.

Larry R. Miller
Director, Discover Conferences

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Corporate sustaining member dues are $1,000. Corporate sustaining membership includes professional membership for your representative. Corporate representatives will have electronic access to the *Journal of Dairy Science®* (JDS), can attend DiscoverSM Conferences, and can subscribe to S-PAC® 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.

**Journal of Dairy Science**

*Journal of Dairy Science* ranked fourth of 61 journals in Clarivate’s Agriculture, Dairy, and Animal Science category by the 2018 Impact Factor (3.082) and ranked fourth by the 5-Year Impact Factor (3.208). The journal also ranked first by Eigenfactor Score, which removes self-citations, and first by total citations.

In the Food Science and Technology category (using the same Impact Factor), JDS ranked 34th of 135 journals by the 2018 Impact Factor and 34th of 135 journals by the 5-Year Impact Factor. The journal was ranked fourth by Eigenfactor Score in this category and third by total citations.

The official journal of the American Dairy Science Association, JDS is the leading general dairy research journal in the world. Its readers represent education, industry, and government agencies in more than 70 countries with interests in biochemistry, breeding, economics, engineering, environment, food science, genetics, microbiology and food safety, nutrition, pathology, physiology, processing, public health, quality assurance, and sanitation.

**S-PAC Subscription at the Member Rate**

The ADSA’s high-value product S-PAC (Searchable Proceedings of Animal Conferences) 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 663 sets of proceedings at this writing. You can try S-PAC at no risk—five days for only $5!

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- A listing on the ADSA website, with a link to your home page.
- Your company name on the JDS website (About the Journal).
- A listing in the ADSA Annual Meeting final program, ADSA’s weekly Dair e-News, and two annual ADSA newsletters.

Please contact Vicki Paden (vickip@assochq.org) to become a corporate sustaining member.
S-PAC—Information at Your Fingertips

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), which is described in another article. The third is the Searchable Proceeding of Animal Conferences (S-PAC; [https://spac.adsa.org/](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, but have you checked 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 simultaneously for the specific information needed. It works on your computer, tablet, or smartphone, so you have access whenever you need it.

Proceedings from state, regional, national, and international conferences developed for producers, agricultural professionals, and scientists are great resources that show the applications of cutting-edge research and management information. Often the first—and sometimes the only—place this information appears is in conference proceedings. S-PAC was established 14 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 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 40 other countries.

More than 660 proceedings from more than 60 conferences are available to subscribers. For several conferences, S-PAC is the only place the proceedings are available electronically. A few well-known North American conferences available on S-PAC include the American Association of Bovine Practitioners, 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, 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 real-world application of cutting-edge 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. It provides immediate access to reliable information as you can rapidly search all proceedings in the database. Each article is stored as an individual PDF, allowing the entire collection to be searched for the information you need.

Visit [http://spac.adsa.org/](http://spac.adsa.org/) for a list of all conferences in the database, a calendar of upcoming conference dates, and links to websites for many conferences. If you attend the ADSA Annual Meeting or a Discover Conference, you receive 90 days of complementary access to S-PAC following the meeting. This provides a great opportunity to try it out, or you can test drive the system at any time at the special rate of $5 for 5 days. This allows you full access to the system as many times as you’d like during those 5 days. You can use 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 that 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 ([keolson@prodigy.net](mailto:keolson@prodigy.net)).

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
Future Meetings

2020 ADSA Virtual Annual Meeting
June 22–24, 2020

39th Discover Conference
The Transition Period—From Physiology to Management
October 26–29, 2020
Eaglewood Resort and Spa
Itasca, IL

40th Discover Conference
NASEM Nutrient Requirements of Dairy Cattle
June 1–4, 2021
Eaglewood Resort and Spa
Itasca, IL

2021 ADSA Annual Meeting (colocated with ASAS)
July 11–14, 2021
Louisville, KY

2022 ADSA Annual Meeting
June 19–22, 2022
Kansas City, MO

International Symposium on Ruminant Physiology 2024

The ADSA Foundation is proud to host the 2024 International Symposium on Ruminant Physiology (ISRP). ISRP is a premier symposium hosted every 5 years specifically focused on cutting-edge physiology research in ruminants. The program primarily consists of invited presentations spanning nutrition; gastrointestinal, endocrine, and lactational physiology; and other timely ruminant biology topics. The symposium is highly respected for its scientific rigor and interaction among colleagues.

The US proposal to host ISRP 2024 in the Chicago area was approved by the ISRP International Scientific Committee. This is the first time in at least 25 years that the symposium will be held in the United States. The organizing committee representing dairy, beef, and small ruminants is currently in the initial stages of planning the 2024 program. More information about the symposium will be announced in the coming months.