ADSA®
Annual Meeting
June 24–27, 2018
Knoxville, Tennessee

Registration Brochure
www.adsa.org/2018
The American Dairy Science Association® (ADSA®) will hold the 2018 ADSA Annual Meeting in Knoxville, Tennessee, June 24–27. This brochure provides meeting highlights as well as registration and housing information. The meeting program will be posted online at https://www.adsa.org/2018 in late April, and a printed program book will be distributed on site.

**Location and Schedule of Events**

The 2018 ADSA Annual Meeting will be held at the Knoxville Convention Center and surrounding hotels. Pre-conference symposia and workshops are scheduled for Sunday, June 24 (see page 5) and the opening session will be held on Sunday evening; scientific sessions will begin Monday morning, June 25, and run through noon on Wednesday, June 27.

**Opening Session — Changes in 2018!**

We have changed the timing and format of the opening session in 2018 to allow attendees more time to network with colleagues. The session will start earlier, at 6:00 pm, with the ADSA President Karen Schmidt as emcee. Karen will recognize the highest level ADSA Award winners for 2018, and will report on the accomplishments of ADSA over the past year. The session will end at 6:45 pm and be followed by the Opening Reception, with a local band as entertainment. This new format is designed to provide attendees an opportunity to get out and explore Knoxville's many independent restaurants with their colleagues.

**Program Format for 2018**

**Poster sessions (Monday/Tuesday):**
7:30 am – 9:30 am  
Scientific sessions:
9:30 am – 12:30 pm  
Lunch breaks:
12:30 pm – 2:00 pm  
Scientific sessions:
2:00 pm – 5:00 pm

**Registration Information and Hours**

Use the registration form in this brochure or register online at https://www.adsa.org/2018/reg. Your receipt, meeting badge, appropriate tickets, and other meeting materials will be available at the registration area in the Knoxville Convention Center. Please register by May 31, 2018, to take advantage of the discounted early registration rate. In addition, professional members who register online before 11:59 pm on March 15, 2018, will receive a $50 discount on the early registration fee!

Registration will be located near Exhibit Hall A in the Convention Center. Registration hours are as follows:

Saturday, June 23  
3:00 pm – 5:00 pm  
Sunday, June 24  
7:00 am – 7:00 pm  
Monday, June 25  
6:30 am – 5:15 pm  
Tuesday, June 26  
7:00 am – 5:15 pm  
Wednesday, June 27  
7:00 am – 12:00 pm

**Presentation Information**

**Notice to Nonmember Presenters**

Because of an increase in no-shows for both oral and poster presentations at recent meetings, if you are not a member of ADSA, acceptance of your abstract for the 2018 ADSA Annual Meeting will be finalized only if you have registered for the meeting by March 15, 2018.

If, for any reason, you cannot attend after you have preregistered, you must arrange for a co-author to make your oral presentation. Once you’ve made alternative arrangements, please contact ADSA headquarters (abstract@adsa.org) to provide the new presenter information.

If an abstract is accepted, the presenter must attend the meeting to present (this applies to both oral and poster presentations). If a nonmember presenter (i.e., not a member of ADSA) is not registered for the 2018 ADSA Annual Meeting by 11:59 pm (Central time) on March 15, 2018, the abstract will not be published. It will be removed from the program and will no longer be available for presentation at the meeting. Nonmembers who register but cannot attend the meeting and are unable to arrange for a substitute presenter will receive a 90% refund, provided the reason for nonattendance is a personal emergency. If nonattendance is due to visa denial, a 50% refund shall be made. All nonmember presenter requests for refunds must be accompanied by appropriate documentation and will be processed after the meeting in the form in which registration payment was made (i.e., if you paid by credit card, the refund will be applied to your credit card account). If you cannot attend but do arrange for a co-author to make your oral presentation, please contact ADSA headquarters (abstract@adsa.org) to provide your change of information.

**Oral and Invited Speakers**

Oral sessions will begin at 9:30 am on Monday, Tuesday, and Wednesday. Meeting rooms will be equipped for electronic presentations and preloaded sessions.

**Upload Information**

**Pre-meeting upload:** Presenters will be able to upload presentation files in advance of the meeting. Avoid the onsite rush and upload your presentation on your own schedule. The website is available 24 hours a day from now until 11:59 pm (Central time) on June 21 (http://www.fass-abstracts.org/meetinginfo.asp?meetingcode=258). Files will not be accepted via e-mail.

**Onsite upload:** Onsite presentation upload will be available; files can be delivered to the Preload Room. Presentations must be uploaded by 5:00 pm on the day before your scheduled presentation. Files will not be accepted via e-mail. **No presentations will be loaded while the session is in progress or between presentations.**

**Poster Presentations**

We have dedicated a two-hour block on Monday and Tuesday to poster presentations. The “open poster” sessions will be from 7:30 to 9:30 am on Monday and Tuesday in Exhibit Hall A of the Knoxville Convention Center. Coffee and pastries will be served in the poster area from 8:00 to 9:00 am on both days.
Each poster presentation will be available for public viewing until 5:00 pm on Monday and 4:00 pm on Tuesday, with the presenting authors present during the open posters time (7:30–9:30 am). All posters must be mounted on the board 30 minutes before the beginning of the day’s session (posters must be mounted on boards by 7:00 am). The exhibit hall will open at 6:30 am on Monday and Tuesday. Posters must be removed after 5:00 pm on Monday and after 4:00 pm on Tuesday. Any posters remaining after these times will be discarded.

Each poster board area is 48 inches high and 96 inches wide. Use of this space is dictated by the presenter, with the following exceptions: the top of the poster space must include the abstract number with the corresponding letter of the day it is being presented, title, authors, and affiliations. The lettering for this section should be at least 1 inch high.

Poster presenters are encouraged to upload a PDF of their poster in advance or onsite for viewing by attendees at specially designated kiosks. Electronic posters will be available only to meeting attendees during the meeting.

Don’t want to carry your poster to the meetings? Use the online FedEx Office Services: http://www.fedex.com/us/office/services/. Register, upload your poster, and schedule delivery via FedEx to your hotel. All FedEx services are at your own expense.

Locating the Correct Poster Board
Each poster board number corresponds to the abstract number as noted in the program. For Monday posters an “M,” and for Tuesday posters a “T” precedes the board number.

Notice to Attendees
Use of cameras, video cameras, phones, or tablets (for calls, audio/video recording, or still photography) is prohibited during oral and poster presentations to minimize disruption and unauthorized dissemination of data. Anyone found in violation of this policy will be asked to leave the session.

Media Room
A media room will be available throughout the meeting to provide a space for media representatives to work. Meeting press releases will be available there. Complimentary registration is available for members of the media. For more information, please contact adsa@adsa.org.

ARPAS Continuing Education Units
The 2018 ADSA Annual Meeting has been approved for up to 18 continuing education units (CEUs) for the American Registry of Professional Animal Scientists (ARPAS) certification requirements. Check the schedule of events for times and location of the ARPAS exams.

Accommodations
In order to receive the meeting discount, housing reservations must be made through the ADSA Annual Meeting Housing Services. Reservations may be made online by visiting https://www.adsa.org/2018/hotel (see page 15 of this brochure). The deadline for discounted room rates is May 22, 2018.

Transportation
Knoxville is easy and convenient to get to by car or plane. Located at the intersection of I-75 and I-40, Knoxville is within a day’s drive of nearly half the US population.

McGhee Tyson Airport-Knoxville (TYS) is 12 miles and a quick 15-minute taxi ride from downtown Knoxville. McGhee Tyson Airport is one of the most convenient and accessible regional airports in the nation and boasts 120 daily nonstop flights from more than 20 destinations. Taxi service to downtown hotels and the convention center is readily available outside of the airport terminal. Share a cab with a fellow meeting attendee to jump start your networking!

Looking for a novel way to get around town during your stay? The Knoxville Trolley is one of the most popular symbols of the city, and it’s completely free for all passengers. Three trolley routes serve downtown Knoxville and the University of Tennessee (UT) area. Trolley maps are available at several locations throughout downtown, including Knoxville Station Transit Center.
Knoxxville is exactly what people declare it to be … a hidden gem. The pure walkability of downtown allows people to explore the city and discover vibrant murals, local music, historic sites, art museums, and more. Just three miles from downtown lies Knoxville’s Urban Wilderness, featuring over 50 miles of trails, a nature center, the Tennessee River, and quarry lakes for hiking, biking, paddling, birding, and trail running. Some of the city’s favorite attractions include Zoo Knoxville, the Knoxville Museum of Art—home to one of the world’s largest figurative glass and steel installations—and the Sunsphere at World’s Fair Park. Take a free ride up to the 4th floor observation deck for a spectacular 360-degree view of the city.

With so much right outside your door, it’s easy to see why people love exploring this city. Just save room for dinner. Knoxville is emerging as one of the best culinary and craft beer towns in the Southeast, and it’s home to a few stops on the Tennessee Whiskey Trail.

The ADSA Annual Meeting will be held at the Knoxville Convention Center (KCC), the cornerstone of Knoxville’s meeting facilities. Located alongside World’s Fair Park in the heart of downtown, the KCC is within walking distance of the city’s finest hotels, restaurants, and attractions. This beautiful, 500,000-square-foot space offers free wi-fi in meeting rooms. Free trolley service is also available.

With its sophisticated mix of culture and cuisine, served up with genuine hospitality, Knoxville will surprise you.
Sunday, June 24
- ADSA Graduate Student Symposium: Manuscript Writing for Graduate Students
- Teaching Workshop: How to Implement and Evaluate Active Learning Activities in Your Classroom (additional fee)
- Late-Breaking Original Research Session
- Workshop: Dairy Records Management (additional fee)
- Workshop: Spore Sources and Transmission from Farm to Fork—Detection and Control Strategies (additional fee)
- Workshop: NANP Nutrition Models (additional fee)

Monday, June 25
- Animal Behavior and Well-Being Platform Session: Assessment of Affective States of Dairy Cattle
- Small Ruminant Platform Session: Addressing Management Challenges and Improving Performance in Small Ruminants
- ARPAS Symposium: Sustainable Dairy Production
- Reproduction: Joint ADSA-SSR Symposium: The Immune–Reproduction Nexus—The Good, the Bad, and the Ugly
- Dairy Foods: Joint ADSA-American Society of Nutrition Symposium: Views on Milk and Human Health
- Ruminant Nutrition: Management and Nutrition of Dairy Cattle in the New Era of Automation
- Teaching, Undergraduate and Graduate Education Symposium: Active Learning—From Theory to Practice
- Forages and Pastures Symposium: Fiber Digestibility—From Cell Wall Composition to Forage Utilization
- Joint MILK and Lactation Biology Symposium: Milk Globules, Vesicles, and Exosomes—Update, Origin, Structure, and Function
- Animal Health: Joint ADSA-National Mastitis Council Platform Session: Milk Quality and the Dairy Industry Today
- Ruminant Nutrition Platform Session 1: Rumen Function and Health

Tuesday, June 26
- Dairy Foods Microbiology Symposium: Whole-Genome Sequencing for Dairy Microbiology
- Breeding and Genetics Symposium: Fertility—Filling the Gaps
- Ruminant Nutrition: Interface of Environment and Nutrition—Targeted Nutrition to Overcome Heat Stress
- Lactation Biology: Joint ADSA-National Mastitis Council Symposium: Advances in Mammary Health and Immunology
- Dairy Foods Processing Symposium: Emerging Processing Technologies to Improve Quality and Functionality of Dairy Ingredients
- Growth and Development Symposium (joint with Ruminant Nutrition): Post-Weaning and Beyond
- Southern Section Symposium: Sustaining the Southern Dairy Industry: University Research, Teaching, and Extension Outlook
- Reproduction Symposium: Recent Innovations in Reproductive Management

Wednesday, June 27 (morning only)
- Dairy Foods Processing Symposium: Utilization of Whey
- Production Division Symposium: Setting the Course for a Successful Lactation
- Ruminant Nutrition Platform Session 2: Protein and Amino Acid Nutrition
- CSAS Symposium: Genomic Alterations and Implications on Health: Gut and Beyond
- Breeding and Genetics: Joint ADSA-Interbull Session: Phenotyping and Genetics in the New Era of Sensor Data from Automation

ADSA-SAD 2018 Commemorative T-Shirts Available!
Get your very own 2018 SAD Commemorative T-Shirt! Shirts are unisex sizing (S to XL), cost $15, and can be ordered on the Registration Form.
Writing in the Dairy Sciences: A Graduate Student’s Guide to Publishing in Journals and Beyond

All graduate students are encouraged to attend this valuable writing enhancement symposium. Highly published authors and guest speakers will share insight, tips and suggestions for getting research published and recognized, even beyond scientific audiences! Topics will include the manuscript review process, how to write an effective response to revisions, ways to get your manuscript recognized after it is published, and ways to improve your writing.

Teaching Workshop: How to Implement and Evaluate Active Learning Activities in Your Classroom (additional fee)

This workshop will introduce active learning activities that attendees will be able to implement in their classrooms this fall. A pre-workshop survey will be conducted to help us understand the needs and interest of participants. The survey will be available a few weeks before the meeting. Participants will be invited to bring a syllabus of their course for use during the breakout sessions.

Workshop: Dairy Records Analysis (additional fee; personal laptop required)

Dairy Records Management System (DRMS) has developed reports to aid in analyzing dairy information for daily decision-making by herdpersons and consultants. In addition to these reports, DRMS’ PCDART herd assessment tools enable managers and advisors to analyze herd performance using either on-farm or downloaded data. The primary goal of this workshop is to show participants how they can use a combination of DHI and PCDART reports to analyze dairy herd data and draw conclusions from the results.

Workshop: Spore Sources and Transmission from Farm to Fork—Detection and Control Strategies (additional fee)

Spore-forming bacteria are known to play a role in the quality of a variety of dairy products, from fluid milk to dairy powders. These organisms represent farm-to-fork contaminants in that they enter the dairy product continuum at the farm level as well as in the processing facility. Therefore, minimizing product failures due to spore-forming bacteria requires a systems approach from production through processing. This workshop will address current research on spore sources, intervention strategies, and methods of detection, and will utilize industry knowledge on interrupting the transmission of spore-forming bacteria into dairy products.

Workshop: NANP Nutrition Models (additional fee)

The National Animal Nutrition Program (NANP) Nutrition Models workshop will use lectures and exercises to illustrate how mathematical models are constructed, evaluated, and applied toward problems in animal nutrition. Several modeling approaches are covered, but particular emphasis is given to dynamic, mechanistic models. The workshop will give attendees a basic fluency in mathematical modeling and, in so doing, advance their use of models in nutrition research.

New in 2018! SAD/Undergraduate Small Group Mentoring Sessions

The ADSA Mentor Program connects professional members with undergraduate students for small group mentoring sessions during the annual meeting. ADSA Past Presidents and others will meet with small groups of students to attend scientific presentations by interest area, followed by discussions of the topics presented. Engagement in the scientific presentations and interactions with conference attendees will help students develop their technical skills and build their professional network. Advance registration by May 31 is required. Multiple mentoring session times will be offered on Monday and Tuesday during the meeting. Please indicate research interest area for each mentoring session on the registration form. To help match mentees with mentors, registered students will be contacted separately after May 31 via email to schedule mentoring session times.

New in 2018! An Event Designed to Connect Graduate Students with Industry and Academia

Plan to attend the new GSD Poster Session Mixer on Tuesday, June 26. Enjoy refreshments provided by Daisy Brand while mingling with graduate students eager to connect with potential employers in academia and industry. Students will be able to showcase their poster presentations and talk one-on-one with potential employers. Professional ADSA members should take advantage of this valuable time to connect with the future generation of the dairy industry. Both graduate students and professionals planning to attend this event should register on the registration form.
Coffee and pastries will be served in the exhibit hall on Monday and Tuesday from 8:00 to 9:00 am. Please make time to talk with our exhibitors while you are enjoying complimentary coffee and pastries!

**SAD Undergraduate Student Hospitality Room**  
Saturday, June 23  
4:00 – 6:30 pm  
Hilton Knoxville

The SAD Hospitality Room will be available on Saturday afternoon for members to stop by, grab a snack, and meet others as you arrive. Information about the SAD schedule will be available, and officers will walk clubs to the conference center to pick up registration materials.

**SAD Undergraduate Student Informal Mixer: SAD Dine Around**  
Saturday, June 23  
6:30 pm  
Meet in SAD Hospitality Room, Hilton Knoxville

SAD officers will host a dine around event on Saturday for schools arriving early. Stop by the SAD hospitality room Saturday afternoon if your club would like to participate. Students from participating schools are encouraged to join different dinner groups for a fun evening of networking and good food. Participants are responsible for the cost of their meal.

**SAD Undergraduate Student Midday Mixer and Lunch**  
Sunday, June 24  
12:00 – 1:00 pm  
Tickets: $5

Join your fellow dairy clubs for a fun hour of getting reacquainted and making new friends, and get to know your 2018–2019 Student Affiliate Division (SAD) Officer candidates. Ticket price includes lunch. Note: Registration is limited to ADSA undergraduate student members and advisors.

**Writing in the Dairy Sciences: A Graduate Student’s Guide to Publishing in Journals and Beyond**  
Sunday, June 24  
2:00 – 4:00 pm

All graduate students are encouraged to attend this valuable writing enhancement symposium. Highly published authors and guest speakers will share insight, tips, and suggestions for getting research published and recognized, even beyond scientific audiences! Topics will include the manuscript review process, how to write an effective response to revisions, ways to get your manuscript recognized after it is published, and ways to improve your writing.

**Graduate Student Division Business Meeting and Open Forum**  
Sunday, June 24  
4:15 – 5:00 pm

In addition to greeting the incoming GSD officer team, attend this meeting to voice your ideas and opinions about ADSA graduate student activities. While at the meeting, sign up for a GSD committee to become involved and help shape the future of our organization.

**Dairy Quiz Bowl Final Round**  
Sunday, June 24  
4:15 – 4:45 pm

University teams from across North America will compete in the ADSA-SAD Dairy Quiz Bowl. The event gives schools an opportunity to demonstrate their knowledge about dairy production, processing, and ADSA history. The Student Affiliate Division (SAD) invites you to join them for the excitement of the final round of competition as the top two schools go head to head for the title of 2018 Dairy Quiz Bowl Winning Team.

**Opening Session and Reception**  
Sunday, June 24  
6:00 – 8:15 pm

Join us at the Opening Session to hear from ADSA President Karen Schmidt with updates on the state of the association and celebrate the awardees of the ADSA Award of Honor, and ADSA Distinguished Service Award, and new ADSA Fellows. Reception to follow with a live Tennessee bluegrass band.

**Graduate Student Division Mixer**  
Sunday, June 24  
7:00 – 10:00 pm  
Scruffy City: 32 Market Square, Knoxville

Kick off the week with a fun night of entertainment and networking with your fellow dairy science graduate students at Scruffy City, located just a short walk from the Convention Center. Join us to enjoy trivia night, free drinks, and one of the best rooftop views of downtown Knoxville! Use this opportunity to meet other graduate students you can network with throughout the week at the Annual Meeting.

**SAD Undergraduate Student Poster and Paper Competitions**  
Monday, June 25  
Convention Center

Support the future of ADSA—plan time in your schedule to visit the undergraduate posters on Monday morning and the oral presentations on Monday afternoon. See program for complete details.

**Companion Event 1: Knoxville Guided History Tour**  
Monday, June 25  
9:00 am – 1:00 pm  
Tickets: $52

Join us for a step-by-step guided walking tour of downtown Knoxville, where you’ll experience historic Gay Street and our downtown gem, Market Square. On this tour you will experience exciting places such as the East Tennessee History Center, which offers an inside look at the history of the people of our region, the Observation Deck of the Sunsphere (the signature structure of the World’s Fair held here in 1982), the Historic Tennessee Theatre (subject to availability), which is one of last surviving movie palaces in the nation, as well as enjoying a boxed lunch during the world-famous WDVX Blue Plate Special Live Radio Show held at the Visit Knoxville Visitors Center. We look forward to hosting you on this journey! Preregistration for this event is required. Register early—capacity is limited!

**Graduate Student Division Career Insights Lunch**  
Monday, June 25  
12:30 – 2:00 pm  
Holiday Inn

Tickets: $10

Graduate students—plan to join us for lunch and interact with a diverse panel of academia and industry professionals! Be prepared to question panel members about their experience moving from graduate school to the professional world. This lunch is intended to give students an informal environment in which to inquire about each professional’s personal journey and the challenges they encountered along the way. A $10 registration fee is required and a boxed lunch is included.

**SAD Undergraduate Student Career Roundtable Lunch**  
Monday, June 25  
12:30 – 2:00 pm  
Holiday Inn

Tickets: $10

Back by popular demand, the Career Roundtable Lunch gives students the opportunity to dine and network with professional members

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representing a wide array of careers in the dairy industry. The program is conveniently scheduled during Monday's lunch break. Participants will learn about careers in the industry, get useful tips on planning for their careers, and much more. Students are encouraged to dress professionally (business casual or better) and bring several copies of their resumes. Students should also plan time to visit industry reps in the exhibit hall for information about internships and job opportunities.

**ADSA Awards Program**  
**Monday, June 25**  
**7:00 – 8:00 pm**

All meeting participants, families, and friends are welcome to attend the 2018 ADSA awards program. Please join us at this special event to recognize and congratulate the 2018 award winners.

**Ice Cream Social**  
**Monday, June 25**  
**8:15 – 9:30 pm**

All meeting participants, families, friends, award winners, and award donors are invited to join us for the always-popular ice cream social.

**SAD Undergraduate Student Tennessee River Cruise**  
**Monday, June 25**  
**9:00 – 11:00 pm**

Volunteer Princess  
**Tickets: $29**

Take a break from the hectic pace of the annual meeting for an evening cruise on the Tennessee River aboard the Volunteer Princess, a 96-foot luxury yacht. Enjoy food, drinks, and friends while taking in the sights and sounds of the ever-changing Knoxville waterfront. Ticket price includes dinner and DJ. Cash bar will be available.

**Fun Run, sponsored by Feed Components**  
**Tuesday, June 26**  
**6:30 am**

Please join your friends at Feed Components for a 5K Fun Run in the beautiful city of Knoxville. Free T-shirt included with registration for the first 200 participants registered!

**Companion Event 2: Knoxville Food Tour**  
**Tuesday, June 26**  
**9:00 am – 1:00 pm**

**Tickets: $72**

For those interested in beginning their culinary journey of Knoxville on a guided experience, join us for the private Knoxville Food Tour, where you'll visit restaurant after restaurant, hearing from owners, chefs, and culinary staff alike as they describe the flavor creations you get to enjoy! Knoxville Food Tours always promises to keep it local and keep it delicious. This bus tour will stop at several different Knoxville favorites, and you will sample foods and hear history at each stop. With Knoxville Food Tours, you can let your taste buds do the walking!

Preregistration for this event is required. Register early—capacity is limited!

**SAD Undergraduate Student Educational Workshop: The Dangers of Working with Cattle/Dairy Safety**  
**Tuesday, June 26**  
**10:45 – 11:45 am**

Working with cows is dangerous business, not just because of the size of the animal but also the tools used while working with cattle. Join this hands-on dairy safety workshop to learn about safe animal handling, machine safety, and more. Learn how to work safely with cattle by developing your knowledge of flight zones, behavior, and on-farm techniques. This training will benefit both you and the cow by preparing you for any hazards you may face on farm. Registration is free. To help us plan, please register on the registration form.

**SAD Undergraduate Student Awards Luncheon**  
**Tuesday, June 26**  
**1:30 – 2:00 pm**

Holiday Inn  
**Tickets: $50 (professionals), $35 (students)**

Plan to attend this year’s Student Affiliate Division awards luncheon. The afternoon will be capped with the presentation of student awards and announcement of new SAD officers. Both students and professionals are encouraged to attend. This is a wonderful chance to get to know the next generation of the dairy industry.

**Graduate Student Division Three-Minute Thesis Challenge**  
**Tuesday, June 26**  
**2:30 – 3:30 pm**

ADSA graduate students are encouraged to participate in the return of the Three-Minute Thesis Challenge. This event will test the competitors' ability to convey their research in a way that is understandable to all, in three minutes or less! Emphasis will be placed on the ability to explain research to a lay audience. Entry details will be released prior to the annual meeting, and competition will be limited to ten students selected by a panel of judges based upon strength of CV and a 100-word interpretive summary. All ADSA members are invited to attend the challenge and watch students compete for cash prizes and present their research in a fun and exciting way!

**Graduate Student Division Poster Session Mixer: An Event for Students, Industry, and Academia**  
**Tuesday, June 26**  
**6:00 – 8:00 pm**

Sign up to attend the first-ever Graduate Student Division Poster Session Mixer, where graduate students can mingle with industry professionals and faculty members looking for employees. Graduate students will be given an opportunity to give e-poster presentations as well as network with industry and academia professionals in a more relaxed setting. Students are encouraged to bring paper copies of their poster and CV, as well as business cards. The e-poster presentations are limited to the first 100 students to register, but all graduate students are welcome to attend. Professional ADSA members looking to hire graduate students or discuss research are encouraged to attend the mixer as a way to interact with graduate students outside of the typical poster session atmosphere. Light refreshments will be provided by Daisy Brand.

**ARPAS Exams**  
**Monday, June 25, and Tuesday, June 26**  
**10:30 am – 12:30 pm; 2:00 – 4:00 pm (2 exams on each day)**

ADSA Annual Meeting Exclusive: The American Registry of Professional Animal Scientists (ARPAS) exam will be offered to students with a dairy focus interested in taking the Dairy Cattle exam. Better yet, ARPAS will waive the exam fee for seniors, new graduates, and graduate students who take it during the annual meeting! ARPAS provides certification of animal scientists through examination, continuing education and commitment to a code of ethics, and disseminates applied scientific information through publication of a peer-reviewed journal, *The Professional Animal Scientist* (http://www.professionalanimalscientist.org/). Take advantage of this tremendous opportunity to become ARPAS certified.
Schedule of Events

Scheduling and locations are subject to change without notice. Please refer to your onsite meeting program for the final schedule and room assignments.

Saturday, June 23

7:30 am – 5:00 pm
ADSA Strategic Planning Session

3:00 pm – 5:00 pm
Registration open

4:00 pm – 6:30 pm
SAD Undergraduate Student Hospitality Room, Hilton Knoxville (student hotel)

6:30 pm
SAD Undergraduate Student Informal Mixer: SAD Dine Around
(meet in SAD Hospitality Room, Hilton Knoxville)

Sunday, June 24

7:00 am – 7:00 pm
Registration open

7:30 am – 10:00 am
New Board Orientation

8:00 am – 5:00 pm
ARPAS Governing Council Meeting

9:00 am – 10:00 am
SAD Undergraduate Student Officers and Advisors Meeting

9:00 am – 12:00 pm
SAD Undergraduate Student Midday Mixer and Lunch

10:00 am – 1:00 pm
2019 Program Committee Meeting

12:00 pm – 4:00 pm
SAD Undergraduate Student Quiz Bowl Seating/Preliminary Rounds

12:00 pm – 5:00 pm
Hospitality Lounge open

12:00 pm – 5:00 pm
Media Room open

12:00 pm – 5:00 pm
JDS Editors and Journal Management Committee Lunch and Meeting

1:00 pm – 4:30 pm
Workshop: Records Management

1:00 pm – 4:30 pm
Workshop: Teaching

2:00 pm – 3:00 pm
Production Division Council Meeting

2:00 pm – 3:30 pm
ADSA Foundation Board of Trustees Meeting

2:00 pm – 4:00 pm
Graduate Student Division Symposium: Manuscript Writing for Graduate Students

3:00 pm – 4:00 pm
Production Division Nominating Committee

3:00 pm – 5:00 pm
Late-Breaking Original Research Session (open to all attendees)

4:15 pm – 4:45 pm
Dairy Quiz Bowl Final Round

4:15 pm – 5:00 pm
Graduate Student Division Business Meeting and Open Forum

5:00 pm – 6:00 pm
Dairy Foods Division Council Meeting

6:00 pm – 6:45 pm
Opening Session

6:45 pm – 8:15 pm
Opening Reception

7:00 pm – 10:00 pm
Graduate Student Mixer: Scruffy City

Monday, June 25

6:30 am – 7:00 am
SAD Undergraduate Student Posters setup

6:30 am – 8:00 am
Production Division Extension Breakfast

6:30 am – 5:15 pm
Registration open

7:15 am – 8:30 am
Turn in yearbooks and scrapbooks at SAD exhibit

7:30 am – 11:00 am
SAD Undergraduate Student Poster Presentation Competition

7:30 am – 9:30 am
Poster presentations; coffee and pastries in Exhibit Hall from 8:00 to 9:00 am

8:00 am – 9:00 am
Introduction to S-PAC (at the ADSA booth in the Exhibit Hall)

8:00 am – 9:15 am
SAD Undergraduate Student Small Group Mentoring Session 1: Poster Presentations

8:00 am – 5:00 pm
Media Room open
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<th>Time</th>
<th>Event</th>
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<td>8:00 am – 5:00 pm</td>
<td>Interview Room open</td>
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<td>8:00 am – 5:00 pm</td>
<td>Commercial exhibits open</td>
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<td>8:00 am – 5:00 pm</td>
<td>Job Resource Center open</td>
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<td>8:00 am – 5:00 pm</td>
<td>Hospitality Lounge open</td>
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<td>8:30 am – 9:30 am</td>
<td>SAD Undergraduate Student Judging of Yearbooks, Scrapbooks, Annual Reports</td>
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<td>10:30 am – 12:30 pm</td>
<td>ARPAS Exam</td>
</tr>
<tr>
<td>11:00 am – 12:30 pm</td>
<td>SAD Undergraduate Division Dairy Foods Presentation Competition</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>Graduate Student Division Career Insights Lunch</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>SAD Undergraduate Student Career Roundtable Lunch</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>ADSA Past Presidents’ Lunch</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>ARPAS Business Meeting</td>
</tr>
<tr>
<td>2:00 pm – 4:00 pm</td>
<td>ARPAS Exam</td>
</tr>
<tr>
<td>2:00 pm – 5:00 pm</td>
<td>SAD Undergraduate Division Original Research Presentation Competition</td>
</tr>
<tr>
<td>2:00 pm – 5:00 pm</td>
<td>SAD Undergraduate Division Production Presentation Competition</td>
</tr>
<tr>
<td>2:30 pm – 3:45 pm</td>
<td>SAD Undergraduate Student Small Group Mentoring Session 2: Oral Presentations</td>
</tr>
<tr>
<td>5:00 pm – 6:30 pm</td>
<td>Award Donor Dinner</td>
</tr>
<tr>
<td>7:00 pm – 8:00 pm</td>
<td>Awards Program and Ceremony</td>
</tr>
<tr>
<td>8:15 pm – 9:30 pm</td>
<td>Ice Cream Social</td>
</tr>
<tr>
<td>9:00 pm – 11:00 pm</td>
<td>SAD Undergraduate Student Mixer: Tennessee River Dinner Cruise</td>
</tr>
</tbody>
</table>

**Tuesday, June 26**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 am</td>
<td>Fun Run</td>
</tr>
<tr>
<td>6:30 am – 8:00 am</td>
<td>JDS Editorial Board Breakfast/Meeting</td>
</tr>
<tr>
<td>6:30 am – 8:00 am</td>
<td>Dairy Foods Division Milk Proteins and Enzyme Breakfast</td>
</tr>
<tr>
<td>7:00 am – 5:15 pm</td>
<td>Registration open</td>
</tr>
<tr>
<td>7:30 am – 9:30 am</td>
<td>Poster presentations; coffee and pastries in Exhibit Hall from 8:00 to 9:00 am</td>
</tr>
<tr>
<td>8:00 am – 9:00 am</td>
<td>ADSA Spokesperson Q&amp;A (at the ADSA booth in Exhibit Hall)</td>
</tr>
<tr>
<td>8:00 am – 9:15 am</td>
<td>SAD Undergraduate Student Small Group Mentoring Session 3: Poster Presentations</td>
</tr>
<tr>
<td>8:00 am – 4:00 pm</td>
<td>Commercial exhibits open</td>
</tr>
<tr>
<td>8:00 am – 4:00 pm</td>
<td>Job Resource Center open</td>
</tr>
<tr>
<td>8:00 am – 5:00 pm</td>
<td>Hospitality Lounge open</td>
</tr>
<tr>
<td>9:00 am – 1:00 pm</td>
<td>Companion Tour 2: Knoxville Food Tour</td>
</tr>
<tr>
<td>9:30 am – 10:30 am</td>
<td>SAD Undergraduate Student Business Meeting – Election of Officers</td>
</tr>
<tr>
<td>9:30 am – 5:00 pm</td>
<td>Scientific Sessions</td>
</tr>
<tr>
<td>10:00 am – 11:00 am</td>
<td>Discover Conference Steering Committee Meeting</td>
</tr>
<tr>
<td>10:30 am – 12:30 pm</td>
<td>ARPAS Exam</td>
</tr>
<tr>
<td>10:45 am – 11:45 am</td>
<td>SAD Undergraduate Student Educational Workshop: Dairy Safety</td>
</tr>
<tr>
<td>11:30 am – 12:30 pm</td>
<td>Dairy Foods Division Business Meeting</td>
</tr>
<tr>
<td>12:00 pm – 2:00 pm</td>
<td>SAD Undergraduate Student Awards Luncheon</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>Dairy Foods Division Program Planning Lunch</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>Production Division Business Meeting (boxed lunch for purchase)</td>
</tr>
<tr>
<td>12:30 pm – 2:00 pm</td>
<td>ACAS Business Meeting</td>
</tr>
<tr>
<td>2:00 pm – 4:00 pm</td>
<td>ARPAS Exam</td>
</tr>
<tr>
<td>2:00 pm – 4:00 pm</td>
<td>SAD Undergraduate Student Exhibits – Pick up yearbooks and scrapbooks</td>
</tr>
<tr>
<td>2:00 pm – 5:30 pm</td>
<td>Southern Branch ADSA Symposium and Business Meeting</td>
</tr>
</tbody>
</table>
Schedule of Events continued

2:30 pm – 3:30 pm  SAD Undergraduate Student Committee Meeting – Old and New Officers and Advisors
2:30 pm – 3:30 pm  Graduate Student Division Three-Minute Thesis Challenge
2:30 pm – 3:45 pm  SAD Undergraduate Student Small Group Mentoring Session 4: Oral Presentations
4:00 pm – 5:00 pm  Commercial Exhibits dismantle
5:00 pm – 7:00 pm  Informal Calf Gathering
5:00 pm – 7:00 pm  Informal Milk Quality Session
6:00 pm – 8:00 pm  Graduate Student Division Poster Session Mixer: An Event for Students, Industry, and Academia
7:00 pm – 9:00 pm  Iowa State Alumni and Friends Reception
7:00 pm – 10:00 pm  Canadian Society of Animal Science (CSAS) Wine and Cheese Social

Wednesday, June 27

7:00 am – 12:00 pm  Registration open
8:00 am – 12:00 pm  Media Room open
8:00 am – 12:00 pm  Interview Room open
8:00 am – 12:00 pm  Hospitality Lounge open
8:30 am – 9:30 am  ADSA Business Meeting and Open Forum
9:30 am – 12:30 pm  Scientific Sessions
12:30 pm – 2:30 pm  ADSA Board of Directors Meeting

JDS Club 100

With initiation into JDS Club 100, the American Dairy Science Association recognizes authors who have published 100 or more papers in the Journal of Dairy Science®. Members of the 2018 class will receive a plaque in honor of their unique standing among all JDS authors at the Awards Ceremony of the 2018 ADSA Annual Meeting.
Sponsors and Exhibitors

Sponsorship Benefits
Sponsorship benefits for the 2018 ADSA Annual Meeting include the following, depending on the level of sponsorship selected:

- Complimentary exhibit booth
- Complimentary full meeting registrations
- Recognition from the podium at the opening session
- Event naming rights
- Company listing in final program
- Signage at the meeting

- Post-meeting attendee list
- Company logo on the meeting website
- Link to company website from meeting website
- Listing in onsite meeting newsletter
- Listing and recognition in ADSA News

If you or your company would like to sponsor the 2018 ADSA Annual Meeting, please complete the Sponsorship Pledge Form available online: https://www.adsa.org/2018/sponsorship.

---

A SPECIAL THANK YOU TO OUR 2018 ADSA ANNUAL MEETING SPONSORS

(as of January 10, 2018)

**Gold Level:**
- Chr. Hansen
- National Dairy Council (NDC)
- Pancosma

**Silver Level:**
- Ajinomoto Heartland Inc.
- Diamond V
- Feed Components
- GrowSafe
- National Institute of Food and Agriculture–National Animal Nutrition Program (NIFA-NANP)

**Bronze Level:**
- AB Vista
- Adisseo
- Biomin
- Dairy Nutrition Plus
- European Association of Animal Production (EAAP)
- Phibro Animal Health Corp.

**Contributors:**
- Virtus Nutrition
- Zoetis

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**2018 ADSA ANNUAL MEETING EXHIBITORS**

(as of January 10, 2018)

<table>
<thead>
<tr>
<th>Acumen Detection LLC</th>
<th>Central Life Sciences</th>
<th>Innovative Additives Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adifo NV</td>
<td>Cumberland Valley Analytical Services</td>
<td>King Technia Group</td>
</tr>
<tr>
<td>Adisseo</td>
<td>Dairy Nutrition Plus</td>
<td>Origination Inc.</td>
</tr>
<tr>
<td>Agri-King Inc.</td>
<td>Dairy One Forage Lab</td>
<td>PortaCheck Inc.</td>
</tr>
<tr>
<td>American Registry of Professional Animal Scientists (ARPAS)</td>
<td>Dairy Records Management Systems</td>
<td>Poultry Protein and Fat Council</td>
</tr>
<tr>
<td>Balchem</td>
<td>DASCOR Inc.</td>
<td>Protekta Inc.</td>
</tr>
<tr>
<td>Biomin America Inc.</td>
<td>E.I. Medical Imaging</td>
<td>SoyBest</td>
</tr>
<tr>
<td>Bioprocess Control AB</td>
<td>FASS Inc.</td>
<td>Topcon Agriculture</td>
</tr>
<tr>
<td>Calpis America Inc.</td>
<td>Feedstuffs</td>
<td>(formerly Digi-Star LLC)</td>
</tr>
<tr>
<td></td>
<td>HerdStrong</td>
<td></td>
</tr>
</tbody>
</table>
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 2018 Annual Meeting. Membership will be valid through 12/31/2018.

ADSA Professional Membership Dues
$110

ADSA Undergraduate Student Membership Dues
$5

ADSA Graduate Student Membership Dues
$10

ADSA Postdoc Membership Dues
$55

2018 ADSA ANNUAL MEETING REGISTRATION

ADSA® and ARPAS Professional/Associate Members: Save $50.00 on registration fees by registering online by 11:59 pm on March 15, 2018, at https://www.adsa.org/2018/reg

REGISTRATION FEES

<table>
<thead>
<tr>
<th>Category</th>
<th>Before May 31</th>
<th>After May 31</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADSA/ARPAS Professional/Associate Member</td>
<td>$495</td>
<td>$645</td>
</tr>
<tr>
<td>Nonmember**</td>
<td>$600</td>
<td>$695</td>
</tr>
<tr>
<td>Fellow/Life Member</td>
<td>$175</td>
<td>$200</td>
</tr>
<tr>
<td>Postdoc Member</td>
<td>$150</td>
<td>$200</td>
</tr>
<tr>
<td>Postdoc Nonmember**</td>
<td>$225</td>
<td>$375</td>
</tr>
<tr>
<td>Graduate Student Member</td>
<td>$100</td>
<td>$200</td>
</tr>
<tr>
<td>Graduate Student Nonmember**</td>
<td>$200</td>
<td>$250</td>
</tr>
<tr>
<td>Undergraduate Student Member</td>
<td>$0</td>
<td>$50</td>
</tr>
<tr>
<td>Undergraduate Student Nonmember**</td>
<td>$200</td>
<td>$250</td>
</tr>
<tr>
<td>One-day registration</td>
<td>$195*</td>
<td>$195*</td>
</tr>
</tbody>
</table>

*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 2018 Annual Meeting. Membership will be valid through 12/31/2018.

REGISTER ONLINE: https://www.adsa.org/2018/reg
TICKETED EVENTS

**Saturday, June 23**
- SAD Shirt
  - Circle size: S M L XL
  - Fee: $15

**Sunday, June 24**
- Nutrition Models Workshop
  - Fee: $25
- Spores Workshop
  - Fee: $75
- SAD Undergraduate Midday Mixer
  - Fee: $5
- Dairy Records Mgmt Workshop
  - Fee: $75
- Teaching Workshop
  - Professional: $50
  - Graduate student/Postdoc: $40
- GSD Symposium: Writing in the Sciences
  - Fee: $0
- Opening Session and Reception
  - Fee: $0
- GSD Mixer: Scruffy City
  - Fee: $0

**Monday, June 25**
- ADSA Production Division Extension Breakfast
  - Fee: $35
- SAD Mentoring Session 1*
  - Fee: $0
- SAD Mentoring Session 2*
  - Fee: $0
- Companion Tour 1: Knoxville Guided History Tour
  - Fee: $52
- GSD Career Insights Lunch
  - Fee: $10
- SAD Career Roundtable Lunch
  - Fee: $10
- Awards Ceremony
  - Fee: $0
- Ice Cream Social
  - Fee: $0
- SAD Mixer: Tennessee River Cruise
  - Fee: $29

**Tuesday, June 26**
- Fun Run
  - Circle T-shirt size: S M L XL
  - Fee: $0
- SAD Mentoring Session 3*
  - Fee: $0
- SAD Mentoring Session 4*
  - Fee: $0
- SAD Educational Workshop: Safety
  - Fee: $0
- Companion Tour 2: Knoxville Food Tour
  - Fee: $72
- Production Division Boxed Lunch (optional)
  - Fee: $15
- SAD Awards Luncheon
  - Professional: $50
  - Student: $35
- Iowa State University Reception
  - Fee: $0
- CSAS Wine and Cheese Social
  - Fee: $20
- GSD Poster Session Mixer for Students, Industry, and Academia
  - Fee: $0

*SAD Mentoring Sessions (indicate research area of interest for sessions 1, 2, 3, 4; e.g., _2_ Food Safety)

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

**PAYMENT**

- Total Amount Due $____________
- Check enclosed (drawn on US bank in US funds) -or-
- Please charge $____________, to my credit card
- American Express □ 
  - MasterCard □ 
  - Visa □ 
  - Discover □ 

- Card Number ________________________________
- Expiration Date ______________________________
- Signature ________________________________

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

**CANCELLATION POLICY**

Note: This cancellation policy does not apply to nonmember presenters. Abstract presenters must register by **March 15, 2018**; 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 23, 2018**, the registrant will receive a 90% refund. If the request is received after **May 23, 2018**, NO REFUND will be issued.

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

**IMPORTANT DEADLINES**

- **February 21**: Abstract Submission
- **March 15**: Nonmember Presenter Registration
- **March 15**: Early Bird Member Registration ($50 off professional member rate with online registration)
- **May 22**: Housing
- **May 31**: Early Registration
- **June 21**: Advance Preload

**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/2018/reg or complete and mail or fax this form with your check, money order, or credit card information to:

- **2018 ADSA Annual Meeting**
  - 1800 South Oak, Suite 100
  - Champaign, IL 61820
  - Fax: 217-398-4119

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

**Americans with Disabilities Act (ADA) Compliant**

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

The official hotels for the 2018 Annual Meeting are the Holiday Inn World’s Fair (ADSA HQ), the Crowne Plaza, Hilton Knoxville (Student HQ), the Four Points by Sheraton, and the Hyatt Place. Reservations can be made by either of the following methods:

INTERNET: Book your reservation online at https://pse.tournamenthotels.com/pse/Event/1786. This is the quickest method.

PHONE: (888) 417-6446

Please make your reservation before **May 22, 2018**, to secure a room at ADSA’s discounted rates. For more information, visit https://www.adsa.org/2018/hotel.
2018 ADSA Annual Meeting
1800 South Oak, Suite 100
Champaign, IL 61820

2019 ADSA® Meeting
June 23–26, Cincinnati, Ohio

2020 ADSA® Meeting
June 14–17, Fort Lauderdale, Florida