

2012 JAM

JOINT ANNUAL MEETING



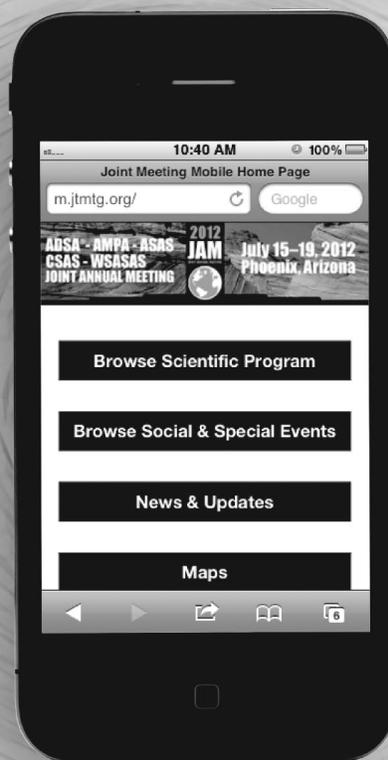
Conference Information and Scientific Program

ADSA[®] · AMPA · ASAS · CSAS · WSASAS
July 15–19, Phoenix, Arizona

<http://jmtg.org/2012>

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WELCOME to JAM 2012!



**Margaret Benson,
ASAS President**



**Bob Roberts,
ADSA President**



**Julie Small,
CSAS President**



**Rafael Núñez Domínguez,
AMPA President**



**Andrew Roberts,
WSASAS President**

On behalf of the participating societies, we welcome you to Phoenix and JAM 2012. This year, in addition to the American Society of Animal Science (ASAS) and the American Dairy Science Association® (ADSA®), we welcome the participation of the Canadian Society of Animal Science (CSAS), Western Section of the American Society of Animal Science (WSASAS), and the Asociación Mexicana de Producción Animal (AMPA), making this a truly international meeting. We encourage all attendees to take fullest advantage of this great opportunity to share ideas across species and societies, visit with each other in person, and make new acquaintances.

Many opportunities exist for interaction among society members, starting with the opening session and reception on Sunday, July 15, when a live interview with Dr. Temple Grandin will be the focus of the opening session. Other special events include the Triennial Reproduction Symposium, our second ASN-ADSA-ASAS pre-conference, the late-breaking abstract session, and close to 40 other symposia addressing topics of relevance to our diverse memberships. ASAS invites you to participate in several new and exciting events, including our inaugural National ASAS Academic Quadrathlon Championship, our one-year Animal Frontiers anniversary, the launch party for AnimalSmart.org, and an amazing overall beef program (5 symposia) hosted by WSASAS. This year, the Production and Dairy Foods divisions of ADSA have collaborated on a new symposium: the ADSA Multidisciplinary and International Leadership Keynote (MILK) Symposium: How Dairy Exporters Can Provide Food Security. In addition, ADSA will be exploring the creation of ADSA World Regions, starting with South America. Check the program schedule for time and place. In addition to their graduate student competitions, CSAS will be hosting a symposium titled "Are We Experiencing a Paradigm Shift in How We Feed Livestock As Industrial Agriculture Evolves in the 21st Century?"

The meeting program offers many educational and professional development opportunities. Over 2,200 abstracts were accepted for presentation and over 40 scientific symposia are scheduled. The program committee has produced an outstanding integrated program across species. See page 43 in this program for the full schedule of symposia at JAM 2012.

We are grateful to the many people involved with making this meeting a success, starting with our sponsors. Their support is essential to the quality program that makes JAM unlike any other meeting. A list of sponsors of this year's meeting is available in this program book. Please take time to thank them during the meeting. The program committee has worked long and hard to organize an excellent program. Our thanks to the overall program committee of Clint Krehbiel (chair), Jack Whittier, Tony Capuco, Geoff Dahl, Katharine Knowlton, and Alan Iwassa. We also thank the many others who contributed to this huge undertaking, including the FASS staff and staff of ADSA and ASAS.

Finally, thank you, our attendees, for participating in JAM 2012 and making it a grand success!

Margaret Benson
President, ASAS

Julie Small
President, CSAS

Andrew Roberts
President, Western Section ASAS

Bob Roberts
President, ADSA

Rafael Núñez Domínguez
President, AMPA

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<http://www.jtmtg.org/2012>

Important Message

In the event that protestors interrupt the meetings, please ignore them. Their goal is to attract attention and any attention you give them will only help their cause. Convention staff have a plan in place to handle these situations, and they depend on our cooperation. If members of the media approach you for an interview, please politely decline and direct them to the convention's media room, where spokespersons will be available.

Thank you for your cooperation.

General Meeting Information

Location

The meeting will be held at the Phoenix Convention Center and area hotels. The convention center is ideally located in downtown Phoenix within walking distance of hotels, shopping, and dining.

Schedule of Events

The 2012 Joint Annual Meeting (JAM) will be held July 15–19 (Sunday through Thursday). The opening session will be held on Sunday evening, July 15; scientific sessions will begin Monday morning, July 16, and run through noon on Thursday, July 19.

We have several pre-meeting events this year:

- A five-day workshop titled **Genomic Selection in Livestock** will be held July 9–13 at the Sheraton Phoenix; see page 42 for details.
- The American Society for Nutrition (ASN), ASAS, and ADSA are collaborating on a one-day pre-conference event: **Regulation of Nutritional Intake and Metabolism** on Sunday, July 15; see page 49 for details.
- The **Triennial Reproduction Symposium: Impediments to Fertility in Domestic Animals** will also be held on Sunday, July 15; see page 49 for details.

The 2012 opening session will feature a live interview with world-renowned animal scientist and ASAS member Temple Grandin. Janet Riley, Senior Vice President Public Affairs and Member Services, American Meat Institute, and long-time friend will illuminate Temple's remarkable achievements and contributions to animal science. Attendees will be encouraged to ask questions. Don't miss what promises to be the most inspiring and memorable opening session ever! After the session, enjoy a strolling mariachi band and snacks at the opening reception. The complete schedule of events can be found on page 35 of this program, or online at <http://www.jtmtg.org/2012>. Watch the website for updates.

Program Format for 2012

Poster sessions	7:30 am–9:30 am
Scientific sessions	9:30 am–12:30 pm
Lunch break	12:30 pm–2:00 pm
Scientific sessions	2:00 pm–5:00 pm

Meeting rooms will be equipped for electronic presentations and preloaded sessions. A cyber café will be available for attendees to keep up to date while at the meeting, and free wi-fi is available in the food court areas of the convention center.

Registration Hours

Registration will be located in the North Hall A-B Lobby of the Phoenix Convention Center. Registration hours for the 2012 Joint Meeting, including special symposia and other events, will be as follows:

Saturday, July 14 (preregistered only)	3:00 pm–5:00 pm
Sunday, July 15	7:00 am–7:00 pm
Monday, July 16	6:30 am–5:15 pm
Tuesday, July 17	7:00 am–5:15 pm
Wednesday, July 18	7:00 am–5:15 pm
Thursday, July 19	8:00 am–1:00 pm

Important Phone Numbers

Hyatt Regency Phoenix (ADSA HQ)	602-252-1234
Sheraton Phoenix (ASAS HQ)	602-262-2500
Renaissance Phoenix (CSAS HQ)	602-333-0000
Springhill Suites (Student HQ).	602-307-9929

Media Check-In

Please check in at the Registration Desk in the North Hall A-B Lobby of the Phoenix Convention Center.

Speaker Ready Room

The Speaker Ready Room is located in Room 221A (adjacent to the Pre-Load room) of the Phoenix Convention Center. This room will be available for speakers from 7:00 am to 5:00 pm on each day of the meeting.

Hospitality Lounge

A hospitality lounge will be located in Room 221C of the Phoenix Convention Center. This lounge will offer attendees an area to relax, network, and catch up with old friends. The hospitality lounge is also a great meet-up place when departing the convention center as a group.

Business Center

Located in the West Building of the Phoenix Convention Center, the UPS Store is there to make your work a little easier. The store offers many services. Binding, printing, business cards, copies, faxing, notary services, and many other services are available. The phone number for The UPS Store is (602) 251-0135.

Presentation Information

Oral and Invited Speakers

Oral sessions will begin at 9:30 am on Monday and Tuesday, 10:30 am on Wednesday, and 8:30 am on Thursday.

Onsite Upload Information

Onsite upload: Onsite presentation upload will be available; files can be delivered to the Preload Room (Room 221B) at the convention center (Sat: 3:00 to 5:00 pm; Sun-Wed: 7:00 am to 5:00 pm; Thur: 7:00 am to noon). **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 each morning to poster presentations. The “open poster” sessions will be from 7:30 to 9:30 am Monday, Tuesday, and Wednesday in the Convention Center, North Hall A-B.

Each poster presentation will be available for public viewing for the entire day, 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 (**poster sessions begin at 7:30 am so posters must be mounted on boards by 7:00 am**) and must list the paper number and corresponding day. The exhibit hall will open at 6:30 am, Monday through Wednesday. **Posters must be removed after 5:00 pm each day.** Any posters remaining after 5:30 pm will be removed by the convention center staff and 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 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.

Locating the Correct Poster Board

Each poster board number corresponds to the abstract number as noted in the program. For Monday posters an "M", Tuesday posters a "T", and for Wednesday posters a "W" precedes the board number.

Camera, Video Camera, and Cell Phone Policy

Use of cameras, video cameras, and cell phones (for calls or as cameras) 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.

ARPAS Continuing Education Units

The 2012 JAM has been approved for up to 21 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.

Job Resource Center

The ADSA-ASAS Job Resource Center is located in the exhibit hall. The job announcements and CVs will be organized into the following categories for posting: Animal Behavior and Well-Being; Animal Health; Animal Breeding; Companion Animals; Extension; Food Safety; Food Science; Forages and Pastures; Genetics; Growth and Development; International Animal Agriculture; Lactation; Meat Science and Muscle Biology; Nonruminant Nutrition; Pharmacology and Toxicology; Physiology and Endocrinology; Production and Management; Ruminant Nutrition; and Teaching.

ASAS E-Career Tool Now Available Online

Whether you are an employer looking to fill a position or a potential employee looking for a job, the ASAS E-Career Tool has been developed to facilitate this communication. The ASAS E-career tool is free to use and very user friendly. Employers can take advantage of the "search employee" function to identify potential candidates and see where and when they will be presenting their work at the 2012 JAM. Job seekers may upload their CVs and cover letters for potential employers to peruse.

Wi-Fi and Cyber Café

The Phoenix Convention Center has free wi-fi in the North Building's Metro Marche area (food court) and the West Building's Metro Lounge area (food kiosk area), so you can keep in touch with work, family, and friends during JAM. Additionally, the cyber café will be located in the exhibit hall and available to all meeting attendees. The cyber café will also have a computer with a printer for limited printing during the meeting.

Mobile MyProgram— An Easier Way to Plan Your Schedule

The MyProgram planner is now mobile! Mobile MyProgram provides JAM attendees with convenient access to the conference schedule via smartphone. With Mobile MyProgram, the JAM program is more convenient than ever. Visit M.JtMtg.org today!

Headquarters Hotels

Hyatt Regency Phoenix

ADSA Headquarter Hotel
122 North Second St
Phoenix, AZ 85004

Renaissance Phoenix

CSAS Headquarter Hotel
50 East Adams
Phoenix, AZ 85004

Sheraton Phoenix Downtown

ASAS Headquarter Hotel
340 North Third St
Phoenix, AZ 85004

Welcome to Phoenix

Transportation in Phoenix

The JAM hotels and the convention center are approximately five miles from Phoenix Sky Harbor International Airport (PHX). The taxi ride will take approximately 15 minutes. The one-way fare for a taxi from the airport to the Phoenix Convention Center area will be approximately \$20.00. A shuttle service (Airport Shuttle) is also available; go online to book a shuttle in advance (<http://www.airportshuttle.com>). The standard rate is \$24.00 round-trip. A shuttle bus connects the airport to the the METRO Light Rail system, which runs to the downtown area.

While you're in Phoenix, you can get around with the METRO Light Rail, which runs from central Phoenix through downtown, Tempe and the ASU campus, to Mesa in the east. Stations are close to and run right by some of the area's top attractions, such as the Heard Museum, Phoenix Art Museum, the Arizona Science Center, Chase Field, US Airways Center, Sun Devil Stadium, and many more. A one-way pass costs \$1.75 and an all-day pass is \$3.50. Passes can be purchased at the ticket vending machines at each station. During the week, trains generally run every 12 minutes from 5 am to 11 pm. On weekends, they run about every 15 minutes from 5 am until 2 am. More information on routes, stops, and prices can be found on their website, http://routes.valleymetro.org/timetables/785/transit_route?type=1.

Phoenix Sightseeing Options

From the Phoenix Convention and Visitors Bureau (CVB):

"Desert character. It can't be conjured, landscaped or kindled with twinkling bulbs. John Ford knew that. So did Frank Lloyd Wright and Louis L'Amour. Spend a few days in Greater Phoenix and you'll understand, too. America's sixth-largest city still has cowboys and red-rock buttes and the kind of cactus most people see only in cartoons. It is the heart of the Sonoran Desert and the gateway to the Grand Canyon, and its history is a testament to the spirit of Puebloans, ranchers, miners and visionaries. This timeless Southwestern backdrop is the perfect setting for family vacations, weekend adventures or romantic getaways. Each year, 13 to 15 million leisure visitors travel to Greater Phoenix. They enjoy resorts and spas infused with Native American tradition, golf courses that stay emerald green all year, mountain parks crisscrossed with trails and sports venues that host the biggest events in the nation. The best way to learn about America's sunniest metropolis, of course, is to experience it firsthand."

Visit the CVB (<http://www.visitphoenix.com/>) for ideas on what to do for fun in Phoenix!

Special Events

ASAS Undergraduate Academic Quadrathlon

Saturday, July 14, to Monday, July 16

Sheraton Phoenix

ASAS is excited to offer our undergraduates the chance to compete in a full Academic Quadrathlon (AQ) on a national level. The AQ students will join us in Phoenix to compete head-to-head in the quiz bowl. Please come out and support our undergraduates.

ADSA SAD-GSD Student Dairy Farm Tour

Saturday, July 14

1:00 – 5:00 pm

Bus departs from Springhill Suites

Departing from the lobby of the SAD hotel, we'll go via motor coach to a Phoenix area dairy farm. Ticket price includes transportation and refreshments.

SAD Student Informal Mixer: Majerle's Sports Grill

Saturday, July 14

7:00 pm

Meet in Springhill Suites lobby or Majerle's Sports Grill, 24 N 2nd Street

Meet in the lobby of Springhill Suites at 6:30 pm or at the restaurant at 7:00 pm. Jump-start the week with good food, good music, and good friends at the Saturday student mixer. Ticket price includes dinner.

SAD Undergraduate Midday Mixer and Lunch

Sunday, July 15

12:00 – 1:00 pm

Convention Center, 224AB

Join your fellow dairy club members for a fun hour of getting reacquainted and making new friends, and get to know your 2012–2013 officer candidates. Lunch includes southwestern fare and drinks. Registration is limited to undergraduate students and advisors.

SAD-Dairy Quiz Bowl Final Round

Sunday, July 15

5:30 – 6:00 pm

Convention Center, 231A

On Sunday, university teams from across North America will compete in the ADSA 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 2012 Dairy Quiz Bowl Winning Team.

ADSA Graduate Student Division Business Meeting and Open Forum

Sunday, July 15

6:00 – 6:45 pm

Convention Center, 231C

Attend to learn about the progress the GSD Advisory Council has made on the current GSD Strategic Plan, and the objectives that the Council has reached in the past year. The second portion of the meeting will be an open forum for graduate student members of the GSD to voice their opinions about the strategic plan, the advisory council, JAM events, and any other topics that might be of interest to members.

Opening Session

Sunday, July 15

7:00 – 8:15 pm

Convention Center, Symphony Hall

The 2012 opening session will feature a live interview with world-renowned animal scientist and ASAS member Temple Grandin. Janet Riley, Senior Vice President, Public Affairs and Member Services at the American Meat Institute, and long-time friend, will illuminate Temple's remarkable achievements and contributions to animal science. Attendees will be encouraged to ask questions. Don't miss what promises to be the most inspiring and memorable opening session ever!

Opening Reception

Sunday, July 15

8:15 – 10:00 pm

Convention Center, North 120A-D

Wind down the evening by joining us after the opening session for snacks, drinks, and some long-awaited socializing time with colleagues and friends. A strolling mariachi band will be on hand for entertainment.

The ASAS Undergraduate Pizza Party, sponsored by the ASAS Graduate Students

Monday, July 16

12:30 – 2:00 pm

Convention Center, 229A

The ASAS graduate students are excited to invite the undergraduates to a pizza party; the graduate students will host. Come and eat free pizza, meet more undergrads, grad students, and the Academic Quadrathlon team.

ADSA Graduate Student Division Career Insights Lunch

Monday, July 16

12:30 – 2:00 pm

Convention Center, 229B

Through informal conversations at each roundtable, graduate students will learn from table leaders (members with hiring responsibilities) and be able to ask frank questions about how to get an interview; best practices in winning them over in an interview; and once in the position, how to thrive. Stay the entire time or just as long as you can. All graduate students are welcome and preregistration for this event is required. Lunch is only \$10 but you must preregister.

ASAS Talks Change

Monday, July 16

3:00 – 4:00 pm

Convention Center, 129AB

Join ASAS for a panel discussion on ASAS operational changes that have taken place this year. Dr. Margaret Benson will kick off the panel discussion by discussing details of some of the changes and associated cost savings and member benefits. Then, a panel of ASAS board members who served on operations subcommittees will answer questions concerning publications changes, database changes, IT changes, and the new office space.

ASAS President's Picks

Monday, July 16

6:30 – 7:00 pm

Sheraton Phoenix, Valley of the Sun foyer

ASAS wants to link the ASAS awards and science, so we are starting a new poster presentation: President's Picks! We will display 10 posters beginning 30 minutes before the ASAS Awards. The posters will represent science that the ASAS President finds innovative and exciting! Posters will be displayed outside the Valley of the Sun room and available for viewing before and after the awards (during the ASAS Awards Celebration). Come see what Dr. Benson thinks is new and exciting at JAM this year.

ASAS Awards Program

Monday, July 16

7:00 – 8:30 pm

Sheraton Phoenix, Valley of the Sun ABC

All meeting participants, families, and friends are welcome to attend the ASAS awards program. Please join us at this special event to recognize and congratulate the 2012 ASAS award winners. We will also announce the winner of our first-ever ASAS video competition and unveil our living histories project. The 2012 Awards Celebration follows immediately after the awards ceremony.

ASAS Undergraduate Academic Quadrathlon Finals

Monday, July 16

8:30 pm (immediately following the ASAS Awards)

Sheraton Phoenix

ASAS is excited to offer our undergraduates the chance to compete in a full Academic Quadrathlon (AQ) on a national level. The AQ students will join us in Phoenix to compete head-to-head in the quiz bowl. Quiz Bowl finals will immediately follow the ASAS awards. Please come out and support our undergraduates.

ASAS Awards Celebration**Monday, July 16****8:30 pm****Sheraton Phoenix, Valley of the Sun DE**

Come join ASAS after our awards to celebrate and congratulate all of the 2012 ASAS Award winners. ASAS and sponsors welcome you to this exciting new reception. We will have food and cash bars and designated areas where you can find award winners and colleagues.

Graduate Student Mixer, sponsored by ASAS**Monday, July 16****9:00 pm****Crescent Ballroom, 308 N. 2nd Ave., Phoenix**

Join your fellow graduate students from ASAS at a mixer for all to enjoy. This event will provide an opportunity to catch up with old friends and make new ones, so don't miss it. Preregistration is highly recommended; all students are welcome.

ADSA-SAD Student Mixer**Monday, July 16****6:30 pm****Poolside, Springhill Suites, 802 East Van Buren Street**

Celebrate a great week at ADSA! Rock the night away with good music, good food and good friends, all poolside on a balmy Arizona night – it doesn't get any better than this! Ticket price includes soft drinks and snacks. Don't miss this perennial highlight of the meeting!

SAD Career Roundtable**Tuesday, July 17****9:30 – 11:00 am****Convention Center, 232BC**

Students will have the opportunity to visit with industry professionals representing various facets of the animal agriculture industry. They 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 to visit industry reps in the exhibit hall for information about internships and job opportunities.

Spouse Event: Phoenix Architecture Tour**Tuesday, July 17****9:00 am – 1:00 pm****Meet in Hyatt Regency lobby**

The Phoenix Architecture Tour with a stop at Taliesin West showcases the unique and Southwestern influence of architecture throughout the city. Many of the buildings in downtown Phoenix have a very distinctive style, adding to the beauty of the city. The State Capitol features a beautiful copper dome to reflect the copper industry that once thrived in Arizona. One of the most interesting stops on this tour is Frank Lloyd Wright's Taliesin West. Complimentary bottled water will be provided on this bus tour; lunch is not included. Preregistration for this event is required. Register early because capacity is limited!

SAD Awards Lunch**Tuesday, July 17****11:45 am – 2:00 pm****Convention Center, 224AB**

Plan to attend this year's SAD awards lunch. 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.

ASAS Foundation Heritage Lunch**Tuesday, July 17****12:30 – 2:00 pm****Convention Center, 229B**

The ASAS Foundation has chosen honorees for the second annual ASAS Foundation Heritage Lunch to be held at the convention center. The 2012 honorees are Lester Casida and Arthur Chapman. Please join us at this Foundation fundraiser to honor these two pioneers of animal science.

CSAS Annual General Meeting and Lunch

Tuesday, July 17

12:30 – 2:00 pm

Renaissance Phoenix, Salon 8

Plan to attend this year's AGM and lunch to learn more about the exciting activities planned for this year and next, as well as the current status of CSAS (e.g., finances, membership, *Canadian Journal of Animal Science*).

Northeast ASAS/ADSA Symposium, Business Meeting, Reception, and Awards

Tuesday, July 17

2:00 – 6:00 pm

Convention Center, 122C

Members of the Northeast ASAS Section/ADSA Branch are invited to the symposium followed by the business meeting, presentation of awards and reception.

ADSA Graduate Student Division Dairy Tales

Tuesday, July 17

3:00 – 4:30 pm

Convention Center, 231C

Please join our first-ever Graduate Student Division Dairy Tales to learn about hot topics in dairy science and foods from your fellow graduate students! During this new and exciting event, select graduate students will be giving short, TED-style talks about their fields of study, using terms that can be understood by students studying any field. The event is free, but please register to stay informed about the program. Cheese will be provided by the Wedge and Bottle.

ASAS JAS and Animal Frontiers Editorial Meeting, Open Forum, and Animal Frontiers Birthday Celebration

Tuesday, July 17

4:00 – 5:00 pm

Convention Center, 231A

Attendees, division editors, and associate division editors are invited to the *Journal of Animal Science* and *Animal Frontiers* Open Forum to discuss the current status of the journals and to help us celebrate the 1-year anniversary of the launch of *Animal Frontiers*. As fitting, we will have an *Animal Frontiers* birthday cake!

AnimalSmart.org Launch

Tuesday, July 17

5:00 – 6:00 pm

Convention Center, 222C

Times have changed and ASAS is working hard to keep and incorporate our traditional scientific values in a new world. AnimalSmart.org is our newest venture to serve external stakeholders in an attempt to positively educate and inform about the importance of animal agriculture and animal science. Join us for good food and a champagne toast as we launch this latest venture.

ADSA Awards Program

Tuesday, July 17

7:00 – 8:00 pm

Hyatt Regency Phoenix, Regency Ballroom

All meeting participants, families, and friends are welcome to attend the 2012 ADSA awards program. Please join us at this special event to recognize and congratulate the 2012 award winners at the Hyatt Regency Phoenix.

2012 JAM Ice Cream Social, sponsored by ADSA

Tuesday, July 17

8:15 – 9:30 pm

Hyatt Regency Phoenix, 2nd Floor Atrium

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

ADSA Graduate Student Division Mixer

Tuesday, July 17

9:00 pm – 12:00 am

Brick, 455 North 3rd Street, Phoenix

Join your fellow graduate students and others at Brick, a fun, local wine bar, located within steps of the convention center. Registration is FREE and the first 100 to sign up receive a free drink ticket! We are giving away door prizes throughout the night, and a local DJ will play our favorite tunes. Make sure to pre-register for this very popular event.

WSASAS Graduate Student Lunch and Learn***Wednesday, July 18******12:30 – 2:00 pm******Convention Center, 229A***

Please join ASAS members Allison Meyer (University of Wyoming), Greg Lardy (North Dakota State University), Larry Reynolds (North Dakota State University), and Kristi Cammack (University of Wyoming) as they discuss travel experiences from a graduate student perspective and ASAS scholarship applications and benefits; international travel experiences from an employer's perspective and the importance of meeting applicable university travel policies; international collaborations in Scotland, Italy, Poland, and Brazil; and the significance of "study abroad" programs and travel to regional, national, and international meetings for graduate students.

Global Networking Reception***Wednesday, July 18******4:30 – 6:00 pm******Convention Center, 224AB***

All meeting participants, families, and friends are welcome to attend the closing reception on Wednesday evening. Again this year, attendees will have the opportunity to indicate their home affiliation on a world map; check the exhibit hall for the poster board before the reception. Don't miss the spectacular Yellow Tail Dancers performing a blend of Native American song and dance that highlights the heritage of the Southwest.

WSASAS Awards Banquet***Wednesday, July 18******6:00 – 10:00 pm******Alice Cooperstown, 101 E. Jackson***

All Western Section members of ASAS are invited to the WSASAS Awards Banquet to congratulate our award winners.

CSAS Awards Banquet***Wednesday, July 18******6:00 – 9:00 pm******Renaissance Phoenix, South Ballroom***

Please join us in honoring the 2012 CSAS award winners. All meeting participants, spouses, and friends are invited to attend this celebratory event. Make sure to purchase your tickets in advance, as a limited number of tickets will be available for purchase at the registration desk.

Alltech/CSAS Graduate Student Mixer***Wednesday, July 18******9:00 pm – 12:00 am******Renaissance Phoenix, South Ballroom***

Please join us for some Kentucky hospitality at the Alltech/CSAS Graduate Student Mixer immediately following the awards banquet. This event is open to all CSAS members and CSAS graduate students. Refreshments will be served and a cash bar will be available.

2012 ADSA Award Donors

ABS Global Inc.
ADSA Foundation
Alltech Biotechnology Center
American Feed Industry Association
Cargill Animal Nutrition
Cargill Flavor Systems
Dairy Management Inc.
DeLaval Inc.

Dupont Nutrition and Health
Elanco Animal Health–Eli Lilly and
Company
Hoard's Dairyman
International Dairy Foods Association
Kraft Foods
Land O'Lakes Purina Feed LLC
Leprino Foods

National Milk Producers Federation
Nutrition Professionals Inc.
Pfizer Animal Health
Pioneer, A DuPont Company
Schreiber Foods
West Agro Inc.

2012 ASAS Award Donors

ABS Global Inc.
Agri-King
American Feed Industry Association
American Society of Animal Science
American Society of Animal Science
Foundation
Bouffault Award Fund
Center for Regulatory Services Inc.

Cenzone Technology
Cromwell Appreciation Club
DSM Nutritional Products Inc.
Elanco
Fontenot Appreciation Club
Land O'Lakes
Merial Ltd.
Morrison Award Fund

Omega Protein Corp.
Pfizer Animal Health
Pond Appreciation Club
The Iams Company
Tucker Appreciation Club
Zinpro Corp.

2012 ASAS Awards Reception Sponsors

(as of May 16, 2012)

ASAS
Montana State University
North Carolina State University
Rutgers Equine Science Center

Texas Tech University
University of Arkansas
University of California-Davis
University of Guelph

University of Kentucky
University of Missouri
Virginia Polytechnic Institute and State
University

2012 ASAS Academic Quadrathlon Sponsors

(as of May 16, 2012)

ABS Global Inc.
CEV Multimedia
ASAS

ASAS Foundation
National Block and Bridle
Select Sires

United Soybean Board
University of Arizona

2012 Western Section ASAS Award Donors

AgResearch LLC
CHS
Diamond V
Elanco
Great Plains Consulting

IMI Global
Land O'Lakes Purina Feed
Padlock Ranches
PerFormix Nutrition
Pfizer Animal Health

Ranchway Feeds
Ridley Block
Strauss Feeds
Vigortone
Zinpro

Exhibit Schedule

Sunday July 15
Monday, July 16

Tuesday, July 17
Wednesday, July 18

Exhibit Set Up 10:00 am – 6:00 pm
Exhibits Open 8:00 am – 6:00 pm
Exhibitor Reception..... 4:00 pm – 6:00 pm
Exhibits Open 8:00 am – 5:00 pm
Exhibits Open 8:00 am – 2:00 pm
Exhibit Dismantle..... 2:00 pm – 5:00 pm

Exhibit Floor Plan

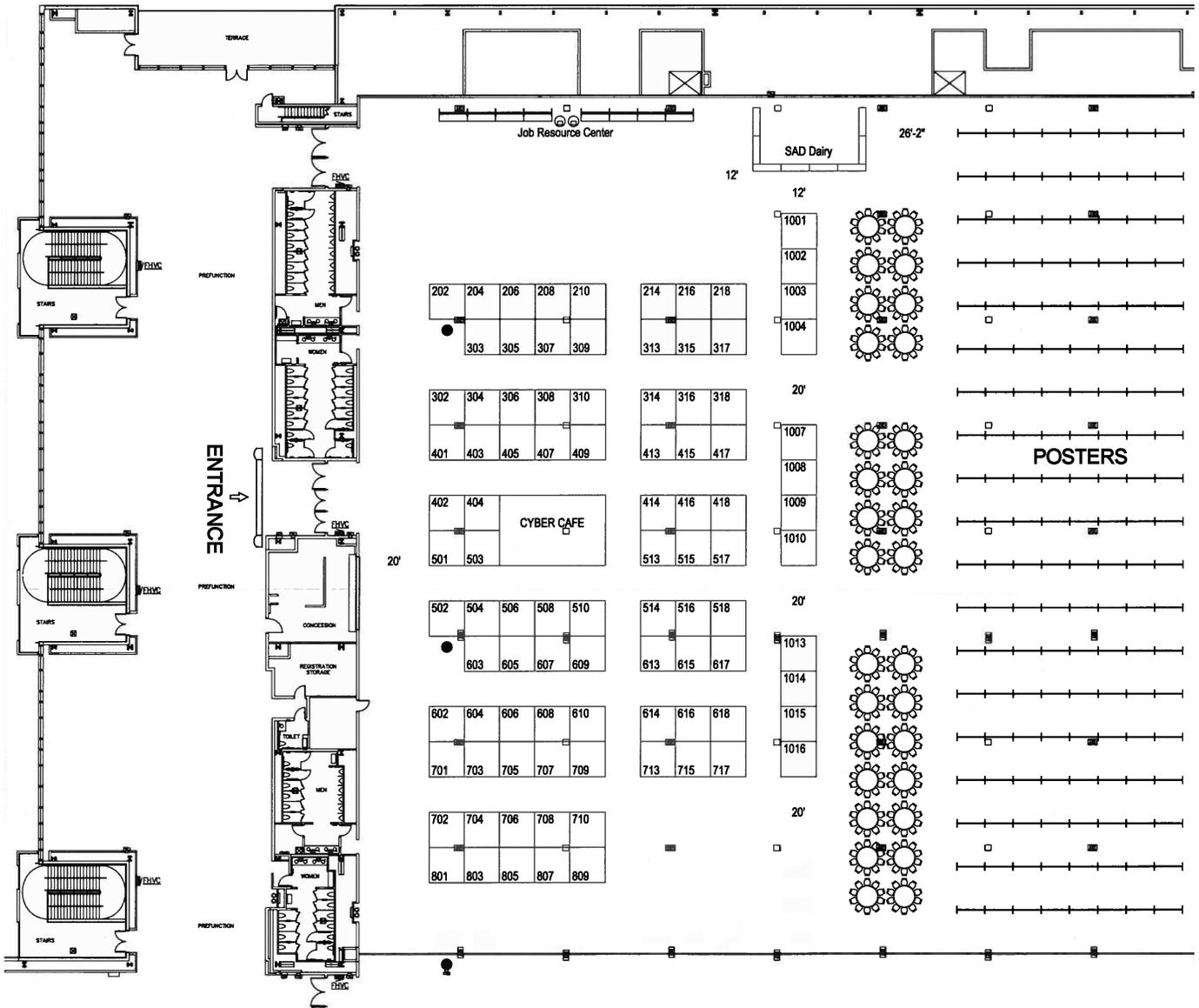


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**A special thank you to our 2012
Joint Annual Meeting Exhibitors!**

Exhibit Directory

AAALAC
5283 Corporate Dr Ste 203
Frederick, MD 21703-2879
<http://www.aaalac.org>
Booth(s): 404

AAALAC International offers accreditation and education services for agricultural animal research programs. Earning accreditation demonstrates dedication to responsible animal care. It also assures research partners, funding sources, and the public of a commitment to quality research and good science. More than 850 institutions in 33 countries have earned AAALAC accreditation.

Acadian Agritech
30 Brown Avenue
Dartmouth, NS, B3B 1X8, Canada
<http://www.tasco.ca>
Booth(s): 602

Tasco is a functional food designed to address critical production issues in today's livestock industry. All-natural Tasco helps modulate functions relative to health, productivity, and stress resistance. Tasco is generally regarded as safe (GRAS) in animal feeds.

Adisseo
4400 N Point Pkwy Ste 275
One Point Royal
Alpharetta, GA 30022-2429
<http://www.adisseo.biz/>
Booth(s): 1013, 1014

At Adisseo, we are nutritionists with a long tradition of applying our expertise to nutritional additives. We are dedicated to serving the animal production industry by helping premixers, feed manufacturers, and integrators to improve their performance and to become more competitive.

Ag Processing Inc.
PO Box 2047, 12700 West Dodge Road
Omaha, NE 68103-2047
(402) 492-3309
<http://www.amino-plus.com>
Booth(s): 518

AminoPlus is the number one volume bypass protein soybean meal dairy supplement in the United States. The patented AminoPlus process utilizes soybean meal to provide high amino acid quality, rumen bypass, and intestinal digestibility without the addition of chemicals or non-soybean components.

Alltech
3031 Catnip Hill Rd
Nicholasville, KY 40356-8700
<http://www.alltech.com>
Booth(s): 214, 216, 313, 315

Founded by Dr. Pearse Lyons, Alltech is a global animal health and nutrition company with 32 years' experience in developing natural products that are scientifically proven to enhance animal health and performance. With 2,800 employees in 128 countries, the company has developed a strong regional presence in Europe, North America, Latin America, the Middle East, Africa, and Asia. For further information, visit www.alltech.com.

American Dairy Science Association (ADSA)
1800 S Oak St, Ste 100
Champaign, IL 61820-6974
<http://www.adsa.org>
Booth(s): 1003

Established in 1906, ADSA is an international organization of educators, scientists, industry, and government representatives who are committed to advancing the dairy industry. All are keenly aware of the vital role the dairy sciences play in fulfilling the economic, nutritive, and health requirements of the world's population. Together, ADSA members have discovered new methods and technologies that have revolutionized the dairy industry. Please visit www.adsa.org for more information.

American Registry of Professional Animal Scientists (ARPAS)
1800 S Oak St, Ste 100
Champaign, IL 61820-6974
<http://www.arpas.org>
Booth(s): 304

ARPAS is the organization that provides certification of animal scientists through examination, continuing education, and commitment to a code of ethics. Continual improvement of individual members is catalyzed through publications (including The Professional Animal Scientist journal) and by providing information on educational opportunities.

American Society of Animal Science (ASAS)
PO Box 7410
Champaign, IL 61820
<http://www.asas.org>
Booth(s): 706

Established in 1908, ASAS is a professional organization for animal scientists designed to help members provide effective leadership through research, extension, teaching, and service for the dynamic and rapidly changing livestock and meat industries. Please visit www.asas.org for more information.

Animal Frontiers
PO Box 7410
Champaign, IL 61820
Booth(s): 807

Animal Frontiers is a new review magazine published jointly by the American Society of Animal Science (ASAS), the Canadian Society of Animal Science (CSAS), and the European Federation of Animal Science (EAAP). Animal Frontiers will address current significant issues important to animal agriculture on the global stage. Each issue of Animal Frontiers will address a common theme with leading authors in those areas addressing various aspects of the theme. Animal Frontiers is published quarterly with an intended international readership of scientists, politicians, industry leaders and the general public seeking a scientific perspective on issues related to animal agriculture.

AnimalSmart.org
PO Box 7410
Champaign, IL 61820
Booth(s): 703

Times have changed and ASAS is working hard to keep and incorporate our traditional scientific values in a new world. AnimalSmart.org is our newest venture to serve external stakeholders in an attempt to positively educate and inform about the importance of animal agriculture and animal science. Visit AnimalSmart.org to learn more.

Ankom Technology
2052 O'Neil Rd
Macedon, NY 14502-8953
<http://www.ankom.com>
Booth(s): 603

Ankom Technology is best known for the development of filter bag technology for automating fiber and fat analysis in foods and feeds. Ankom has products supporting in vitro digestibility, in vitro gas production, and in situ digestibility. Ankom products are in use in over 90 countries around the world.

Arm & Hammer Animal Nutrition
469 N Harrison St
Princeton, NJ 08540-3510
<http://www.AHDairy.com>
Booth(s): 1004

Arm & Hammer Animal Nutrition is a leading supplier of dairy feed ingredients that work to improve producer profitability. We have developed a wide range of innovative products to address the dairy nutrition challenges today's producers face. Trust Arm & Hammer Animal Nutrition for innovative, proven, and reliable nutritional solutions.

ASAS Foundation
PO Box 7410
Champaign, IL 61820
<http://www.asas.org>
Booth(s): 708

The ASAS Foundation was created by the ASAS Board of Directors to identify individual and corporate entities that seek to enhance and perpetuate the activities of the society. The Foundation seeks to create a nucleus of funds and investments from which its Board of Directors and its membership may address critical issues facing the profession. Moreover, we would encourage the funding of ventures into new areas that will assist the society and its members in obtaining excellence in a highly dynamic industry. We visualize a corpus of funds composed of gifts, grants, endowments, and appreciation clubs, each tailored to the needs and wishes of the donor and that are consistent with the mission of the society.

Balchem
PO Box 600 52 Sunrise Park
New Hampton, NY 10958-0600
<http://www.balchem.com>
Booth(s): 210, 309

Balchem's Animal Nutrition and Health Division brings the benefits of patented proprietary micro-encapsulation and chelated trace mineral technology to the livestock, poultry, and companion animal industries. Encapsulation and chelation technologies offer "protection nutrition" to sensitive compounds. Hence, these compounds become bioavailable when and where they offer the most benefit to the animal. Our products include ReaShure, NiaShure, AminoShure-L, NitroShure, KeyShure, VitaShure, and choline chloride.

Bar Diamond Inc
PO Box 60
Parma, ID 83660-0060
<http://www.bardiamond.com>
Booth(s): 1009

Bar Diamond Inc. provides the world with rumen cannulae and accessories. Our cannulae are used in cattle, goats, sheep, water buffalo, bison, deer, reindeer, llama, musk oxen, and a camel! Visit our booth and see our newest photos from around the world.

Bio Springer
321 De La Commune St. Ste 300
Montreal, PQ, H2Y 2E1, Canada
Booth(s): 607

Bio Springer, the global leader in yeast extracts, offers a large number of yeast extracts for dairy culture fermentation, including nucleotide and glutathione rich products. Our yeast extracts are also an important component in animal vaccine manufacturing and reduce viral contamination risks. Our state-of-the-art plant in Cedar Rapids, Iowa, reinforces our commitment to US customers.

Biomin
1846 Lockhill Selma Rd, Ste 101
San Antonio, TX 78213-1551
<http://www.biomin.net>
Booth(s): 310

Biomin is a customer-oriented company with the objective to enhance productivity and unlock the performance potential of livestock. Based on intense research, Biomin develops and produces feed additives and premixes in accordance with latest know-how and with state-of-the-art production technology. Our top brands are Biofix Plus and Biofix Select.

Brilliant Alternatives Inc.
11907 Old Hickory Ct.
Spotsylvania, VA 22553
<http://www.brilliantalternativesinc.com>
Booth(s): 1016

Bob Brill announces "Cloud" Feed Formulation Software. Like many other "Firsts", our Cloud Formulation will allow users to do much more. Additive sellers can use the software to show and tell what their products do for their clients. Universities are invited to use Brilliant's Software for teaching or "outreach projects". Laboratory Decision Maker (LDM) collects samples from NIR or your lab and gives statistical analysis from selected samples. After analysis, LDM allows an automatic update to formulation databases. Brilliant also provides support for Formulation Software. After years of leadership, Brilliant continues to serve the industry.

Bruker Optics Inc.
19 Fortune Dr
Billerica, MA 01821-3923
<http://www.brukeroptics.com/solutions>
Booth(s): 504

Save costs while improving quality by upgrading to the next generation of NIR analyzers. From improved control of feed ingredients to more precise testing of proximates, these analyzers have also been used to monitor blending processes and optimize mill operation. Existing calibrations and data are upwardly mobile. These FT-NIR systems feature the lowest cost of ownership with a 10-year warranty on the Rock Solid Interferometer, which is permanently aligned, eliminating time-consuming instrument standardization protocols. Samples can be measured as-is in seconds without time-consuming sample preparation.

Buchi Corporation
19 Lukens Dr, Ste 400
New Castle, DE 19720-2787
<http://www.mybuchicom>
Booth(s): 614

For over 50 years, Buchi has been known as the market leader, inventor and innovator of lab instruments based on evaporation and vacuum technologies, and as the supplier of the Rotavapor rotary evaporators worldwide. In addition, Buchi Corporation is a proven North American provider of spray dryers for pharmaceutical and food agglomeration and microencapsulation, Kjeldahl and solvent extraction equipment for environmental and food analysis, NIR spectroscopy instruments for pharmaceutical and food quality control, modular flash chromatography systems, and other related laboratory equipment. Headquartered in New Castle, Delaware, Buchi Corporation is an affiliate of Buchi Labortechnik AG (Flawil, Switzerland).

CABI Bookshop
22883 Quicksilver Dr
Sterling, VA 20166-2019
<http://www.styluspublishing.com>
Booth(s): 308

CABI is a not-for-profit international organization that improves people's lives by providing information and applying scientific expertise to solve problems in agriculture and the environment. Distributed in North America by Stylus Publishing.

CABI Publishing
Nosworthy Way
Wallingford, Oxfordshire, OX10 8DE, United Kingdom
<http://www.cabi.org>
Booth(s): 306

CABI is a not-for-profit international organization that improves people's lives by providing information and applying scientific expertise to solve problems in agriculture and the environment. Our mission and direction is influenced by our member countries who help guide the activities we undertake.

Cambridge University Press
32 Avenue of The Americas, Bldg 1
New York, NY 10013-2473
<http://journals.cambridge.org>
Booth(s): 307

Cambridge University Press publishes high-quality books and journals, including *Animal: The International Journal of Animal Bioscience* on behalf of The Animal Consortium, and *Animal Health Research Reviews* in collaboration with the Conference of Research Workers in Animal Diseases. Please stop by our booth to peruse these and other publications.

CEV Multimedia
1020 SE Loop 289
Lubbock, TX 79404-6007
Booth(s): 608, 610, 707, 709

CEV is proud to introduce its NEW, online iCEV Agricultural Science site. This curriculum-on-demand delivery model allows for "anytime, anyplace" access to CEV's entire agricultural science library, including all animal science and animal/meat evaluation resources. With more than 20,000 minutes of video, the subscription-based product is organized into small segments, or learning objectives (i.e., 37 seconds to 18 minutes), and its sophisticated search feature makes searching for various agricultural science topics easy.

Chandler Analytical Laboratories
571 N 54th St
Chandler, AZ 85226
<http://chandleranalytical.com>
Booth(s): 617

We are a small privately owned forage testing laboratory, NFTA-certified for wet chemistry and NIRS. We analyze a variety of agricultural products including alfalfa hay and all alfalfa products, corn and other small grain silages, TMRs, whole grains, distiller grains and supplements. If you can grow it, chances are we can test it! We are also certified for aflatoxin determination in cotton and cottonseed products, and do water quality testing. We pride ourselves on providing quality analyses with a quick turn-around. Our goal is not just to meet but exceed your expectations.

Chr. Hansen
9015 W Maple St
Milwaukee, WI 53214-4213
<http://www.chr-hansen.com>
Booth(s): 302, 401

Chr. Hansen Animal Health & Nutrition has been ranked as the most trusted direct-fed microbial source by dairy nutritionists. As the "world's microbial experts," Chr. Hansen has been the leading supplier of lactic acid bacteria and other ingredients since 1874. A history rich in science, research, and product quality has produced products such as Probios, Biomate, Biomax, and BioPlus.

Cumberland Valley Analytical Services
14515 Industry Dr
Hagerstown, MD 21742-2410
<http://www.foragelab.com>
Booth(s): 1010

Cumberland Valley Analytical Services is a full-service forage and feed testing laboratory specializing in chemistry analysis.

Dairy Records Management
313 Chapanoke Rd, Ste 100
Raleigh, NC 27603-3434
<http://www.drms.org>
Booth(s): 405, 407

Dairy Records Management Systems provides innovative dairy information products and services for producers, DHIA staff, consultants, and other dairy industry professionals. Comprehensive processed reports include Transition Cow Management, Survival Analysis and Persistency Analysis. Leading-edge software and web tools include PCDART, PocketDairy, Herd Detective, DairyMetrics, WebReports, and Reports On-Demand.

Dairy Tech Inc.
352 North Shores Circle
Windsor, CO 80550-2614
<http://www.dairytechinc.com>
Booth(s): 502

Dairy Tech Inc. has been an industry leader in new calf technologies that support best management practices. The core of Dairy Tech has been batch pasteurization technology that has led the industry in innovation and research for the past 11 years. Just this year, the company has launched several products that have become cornerstones of colostrum management for calves.

Dalex Livestock Solutions LLC
240 Industrial Blvd
Waconia, MN 55387-1734
<http://www.dalex.com>
Booth(s): 506

Dalex Livestock Solutions LLC is the leading provider of ration formulation software and related livestock solutions. Dalex offers ration balancing for dairy, beef and swine and allows for the use of multiple nutritional models. Current programs include The Consulting Nutritionist and CN.Dalex. Additional programs of value to the livestock industry are currently under development. Dalex has provided a complete solution to formulate, analyze, and monitor livestock feeding situations since 1980.

DASCOR Inc.
PO Box 462885
Escondido, CA 92046-2885
<http://www.dascor.com/ruminframe.html>
Booth(s): 1008

DASCOR Inc. manufactures a series of autonomous data loggers for ruminant research measurements of temperature, pH, ORP, NH_4^+ , and pressure for use in cannulated cattle, and as boluses for use in sheep and goats.

Diamond V Mills
PO Box 74570
Cedar Rapids, IA 52407
<http://www.diamondv.com/>
Booth(s): 702, 704, 801, 803

Diamond V, headquartered in Cedar Rapids, Iowa, provides nutritional fermentation products that optimize digestive function and nutrition key to animal and aqua health, productivity, efficiency and profitability. Our commitment to innovation, technology, and quality has earned Diamond V a global reputation of trust and reliability within the animal feed industry. We help our customers succeed by sharing knowledge, innovation and capability. The benefit is real, Diamond V investment and commitment is real. Diamond V's innovative brands—Original XPC, XP and YC, DiaMune Se, SelenoSource, and DV Aqua—are research proven and engineered to deliver results.

EAAP
Via G. Tomassetti
00161 Rome, Italy
<http://www.eaap.org/>
Booth(s): 316

EAAP annually organizes the largest animal science meeting in Europe. This meeting is the perfect venue to create a network with qualified animal scientists. Over one thousand scientists have attended the EAAP annual meetings in the past years. EAAP produces the journal "Animal", one of the highest ranked animal science magazines. EAAP has many other services and activities for its members: publishing scientific books, organizing specific and regional workshops and scientific meetings, coordinating international research projects, and defending positions of animal science and livestock industry at international level. EAAP is a federation of national members with the national members being the backbone of EAAP. To increase the quantity and quality of services to the animal science community, EAAP established the individual membership structure. Everyone is invited to become members of EAAP and benefit from belonging to the EAAP community.

E. I. Medical Imaging
348 N Jefferson Ave
Loveland, CO 80537-5647
<http://www.eimedical.com>
Booth(s): 701

E. I. Medical Imaging continues to be a world leader and the only US manufacturer of portable ultrasound solutions specifically engineered for veterinary use. For the past 25 years, the company's core values have remained intact: putting the customer first and delivering solid, effective ultrasound solutions. Engineered for detailed image quality and ultra-portability, the versatile Ibex ultrasound scanner is made with interchangeable transducers that allow fast, in-field flexibility and superior image resolution delivers accurate diagnosis. E. I. Medical Imaging designs portable ultrasound solutions for today's veterinary professionals. For more information about Ibex Pro and Ibex Lite call 1 (866) 365-6595 or (970) 669-1793; e-mail info@eimedical.com; or visit www.eimedical.com.

Elsevier
1600 John F Kennedy Blvd Ste 1800
Philadelphia, PA 19103-2398
<http://www.elsevierhealth.com>
Booth(s): 218

Elsevier is a world-leading multiple media publisher of science, technology, and health information products and services. We are proud to publish the Journal of Dairy Science® (JDS), the official journal of the American Dairy Science Association®. Please visit the Elsevier booth in the exhibit hall with any questions you might have about accessing the Journal of Dairy Science online and to browse our other titles in animal science.

EstroTECT
PO Box 39
Spring Valley, WI 54767-0039
Booth(s): 517

AccuBreed is an advanced new wireless tool to track and monitor mounting activity in real time. With AccuBreed, you can determine peak mounting activity, breed when cows are in standing heat, and use available technology to increase pregnancy rates.

Evonik Degussa Corp
1701 Barrett Lakes Blvd NW Ste 340
Kennesaw, GA 30144-4509
<http://www.aminoacidsandmore.com>
Booth(s): 413, 415

Degussa is the only company in the world to supply, from a single source, all four of the important amino acids for animal nutrition: DL-methionine, Biolys (L-lysine), L-threonine, and L-tryptophan. Mepron, a rumen-protected DL-methionine, rounds off the company's product range as part of its "one source" strategy.

Federation of Animal Science Societies
1800 S Oak St, Ste 100
Champaign, IL 61820-6974
<http://www.fass.org>
Booth(s): 204

The Federation of Animal Science Societies (FASS) was formed in 1998 by three founding member societies: the American Dairy Science Association® (ADSA®), the American Society of Animal Science (ASAS), and the Poultry Science Association (PSA). FASS is unique in that we support common agricultural interests and, at the same time, streamline administrative expenses while preserving the societies' traditions and values. We specialize in providing a wide array of management services to small and medium-sized, not-for-profit associations. In addition, each year, PhD scientists in animal science compete for the opportunity to represent FASS in Congress through the Congressional Science Fellowship (CSF) Program. Many of these individuals stay on the Washington scene after their fellowship year and continue to serve animal agriculture in significant ways. Be sure to stop by the FASS booth to hear about DC activities from the 2011–2012 CSF.

Feed Management Systems
6120 Earle Brown Dr, Ste 300
Brooklyn Center, MN 55430-4101
<http://www.feedsys.com>
Booth(s): 318

Feed Management Systems provides integrated software solutions for feed manufacturers to manage their critical formula and production data. Ensure the quality of your feed supply by automating and optimizing formulas, pricing, ordering, inventory, labeling, delivery, traceability, reporting and financials. Solutions include Feed Mill Manager, Brill Formulation, Feed Ration Balancer, and Feed Tags.

Feedstuffs
12400 Whitewater Dr Ste 160
Minnetonka, MN 55343-4158
<http://www.feedstuffs.com/>
Booth(s): 403

Feedstuffs is the only weekly paid news source for agribusiness. Every week, we keep our subscribers informed on the important issues affecting the business of producing food for the world.

H.J. Baker & Bro., Inc.
228 Saugatuck Ave, Ste 1
Westport, CT 06880-6444
<http://www.bakerbro.com>
Booth(s): 513, 515

H.J. Baker offers university research proven products to increase efficiency for today's high producing dairy cows. MetaboLys[®] rumen by-pass, high intestinal digestibility lysine delivers a high payload of lysine directly into the small intestine. PRO-LAK[®] specially formulated 72% rumen by-pass protein delivers the essential amino acid profile and supports maximum milk production. For more information, please visit www.bakerbro.com.

Hangzhou East Biochem Co., Ltd.
1705 Guangyin Bldg, 42 Fengqi Dong Rd
Hangzhou 310020, China
<http://www.east-biochem.com>
Booth(s): 1015

We are a Chinese producer of specialty feed additives. Based on our FAMI-QS certified factory, we provide betaine, sodium butyrate 30% coated, zinc oxide 50% coated, rumen protected choline chloride 25%, rumen-protected lysine HCl 30%, rumen-protected methionine 30%, Bacillus subtilis (5 x 10¹¹ cfu/g) and Bacillus licheniformis (5 x 10¹¹ cfu/g).

IFFCO (Malaysia) Sdn. Bhd.
Port Khalid, Shartah Shartah, United Arab Emirates
Booth(s): 616, 618

A full range of highest quality vitamin mineral premixes is available as per the standard formulations and as per custom made specifications. All premixes are currently being marketed in Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates. All premixes are produced from highest quality raw material selected meticulously from reputed suppliers, weighed accurately and blended uniformly by highly trained and experienced personnel in extremely hygienic conditions (GMP compliant). All premixes are produced after receiving confirmed orders to ensure freshness and supplied on a monthly or fortnightly basis to avoid large inventories at the farm level.

IMMVAC Inc.
6080 East Bass Lane
Columbia, MO 65201-9735
<http://www.immvac.com>
Booth(s): 409

Endovac-Dairy and Endovac-Beef with Immune Plus[®], manufactured by IMMVAC, provides your herd unprecedented protection against E. coli, Salmonella, and Pasteurella. IMMVAC, committed to science and service excellence, is the industry's most scientifically respected manufacturer of vaccines and serums that protect production and companion animals against common disease threats and virtually all gram-negative bacteria.

Jefo Nutrition
5020 Jefo Ave, Box 325
St-Hyacinthe, QC J2S 7B6, Canada
<http://www.jefo.com>
Booth(s): 1001, 1002

Jefo is an industry leader in non-medicated, high-performance feed additives, committed to the livestock feed industry since 1982. In the last 30 years, our involvement in research has resulted in innovation: products designed for the requirements of each species with an understanding of their differences to make a difference on farms.

Journal of Animal Science (JAS)
PO Box 7410
Champaign, IL 61820
<http://jas.fass.org/>
Booth(s): 715

The Journal of Animal Science (JAS) is the premier journal for animal science and serves as the leading source of new knowledge and perspective in this area. JAS publishes more than 400 peer-reviewed research articles, invited reviews, technical notes, and letters to the editor each year. According to ISI's Journal Citation Reports, JAS consistently ranks as one of the top journals (among 43 titles) in the category of Agriculture, Dairy, and Animal Sciences in terms of impact factor, immediacy index, and cited half-life and is in the top 1% of STM publishing (50,000+ titles) by total ISI citations.

Kemin Industries
2100 Maury St
Des Moines, IA 50317-1100
<http://www.kemin.com>
Booth(s): 508, 510

Kemin AgriFoods brings value to the feed industry by working in partnership with its customers. With fifty years of collective expertise in animal nutrition, Kemin AgriFoods has developed the Total Nutrition program offering nutritional solutions that contribute to the safe, efficient, and healthy production of animal protein. Proven scientific knowledge, reliable technology, and personalized service make Kemin the advisor you can count on.

Lallemand Animal Nutrition
6120 W. Douglas Avenue
Milwaukee, WI 53218-1548
<http://www.lallemandanimalnutrition.com>
Booth(s): 206

Lallemand Animal Nutrition offers a range of solutions for the dairy industry, including Levucell SC and Levucell SB active dry yeast, Biotal forage inoculants, Alkosel organic selenium yeast, Agrimos, and other mineral-enriched yeast supplements.

Micronutrients
1550 Research Way
Indianapolis, IN 46231
<http://www.micro.net>
Booth(s): 713

Micronutrients, based in Indianapolis, is dedicated to the development, production and marketing of trace minerals for livestock and companion animals. Current development has led to the creation of a new class of trace minerals, hydroxy trace minerals. Use of the first mineral, IntelliBond C (Micronutrients TBCC – tribasic copper chloride), has grown consistently for the past 15 years and is soon to be followed by zinc and manganese. Hydroxy trace minerals have been proven in over 70 research studies to deliver improved essential nutrient stability in feeds while significantly increasing the availability of the mineral to the animal.

Multimin USA, Inc.
2809 East Harmony Rd. #190
Fort Collins, CO 80528-3111
<http://www.multimininglobal.com>
Booth(s): 414

Multimin90 is an injectable fast acting pre-treatment of the trace minerals copper, zinc, manganese, and selenium. Dairy producers use Multimin90 in replacement heifers and cows at least 4 weeks before critical times of high trace mineral demand such as AI and calving and at dry-off to optimize immunity of the cow and her calf and reproductive performance of the cow.

National Animal Health Monitoring System (NAHMS)
2150 Centre Ave Bldg B-2E7 USDA:APHIS:VS:CEAH
Fort Collins, CO 80526-8116
<http://nahms.aphis.usda.gov>
Booth(s): 805

National studies conducted by the National Animal Health Monitoring System (NAHMS) provide essential information on livestock and poultry health and management in the United States. Production types are studied at regular intervals, providing up-to-date information needed to monitor US animal health, support trade decisions, inform the public, and set policy.

Novus International
20 Research Park Dr
Saint Charles, MO 63304-5633
<http://www.dairybalance.com>
Booth(s): 303, 305

Novus is headquartered in St. Charles, Missouri, and serves customers in more than 80 countries. Novus is an industry leader in animal nutrition and health, and their products include Agrado feed ingredient, Alimet feed supplement, Activate nutritional feed acid, Acidomix preservative premixture, Mintrex organic trace minerals, Santoquin feed preservative, and other ingredients.

PetAg Inc.
255 Keyes Ave
Hampshire, IL 60140-9449
<http://www.petag.com>
Booth(s): 417

Bospro is an aspergillus mycelium product for ruminants that has demonstrated remarkable effects on increasing rumen function. Fermacto is an aspergillus mycelium product for monogastrics that has demonstrated in poultry increased maturity levels of the gastrointestinal tract of the immature bird. Please stop by our booth for data and samples.

Poultry Protein & Fat Council
1530 Cooledge Rd
Tucker, GA 30084-7303
<http://www.poultryegg.org/ppfc/>
Booth(s): 1007

The Poultry Protein & Fat Council solicits and sponsors research that would develop new and increased utilization of poultry byproduct meal, feather meal, blood meal, and poultry fat by demonstrating their efficacy in poultry, aquaculture, livestock, and companion animal rations.

Probiotech International Inc.
6225 Choquette Street St.
Hyacinthe, QC J2S 8L2, Canada
<http://www.probiotech.com>
Booth(s): 418

Probiotech International Inc. and Phodé Laboratories develop and provide the animal nutrition industry with natural solutions. The line of products was designed using the principles of biotechnology in order to promote animal health and to maximize agriculture production with the respect of our environment in mind. Products include patented rumen-protected choline for dairy cows to natural appetite enhancers, organic acidifiers, and plant extracts and sweeteners for all species.

QualiTech Inc.
318 Lake Hazeltine Dr
Chaska, MN 55318-1034
<http://www.qualitechco.com>
Booth(s): 202

QualiTech has been providing innovative solutions to dairy, beef, swine, poultry, equine, and companion animals for over 40 years. Our core technologies and products include SQM organic trace minerals, Feedbuds palatability enhancers, dispersibles, electrolytes, and protected vitamins. The foundation of our technology is over four decades of research conducted across species and under varying conditions with proven results. QualiTech is committed to helping animals, plants and people thrive. For more information about how QualiTech can benefit the animal species you work with, call us at (800) 328-5870, ext. 222, or visit us at www.qualitechco.com.

Rite in the Rain
2614 Pacific Highway E
Tacoma, WA 98424
(253) 522-5000
<http://www.RiteintheRain.com>
Booth(s): 503

Rite in the Rain is a patented, environmentally responsible, all-weather writing paper that sheds water and enables you to write anywhere, in any weather. From the torrential downpours in the Pacific Northwest to the blistering heat and humidity of a Florida summer day, Rite in the Rain is able to provide users around the world with an effective means with which to write, protect, and keep valuable information. Using a pencil or all-weather pen, Rite in the Rain ensures that your notes survive the rigors of the field, regardless of the conditions. Products include copier paper, field books, notebooks, loose leaf, grid sheets and all-weather pens. Custom printing is also available.

Saf Agri/Lesaffre Feed Additives
7475 W Main St
Milwaukee, WI 53214-1552
<http://www.lfa-america.com>
Booth(s): 604

Lesaffre Feed Additives provides innovative products produced by the Lesaffre Group, the world's oldest and largest yeast manufacturer, to livestock feed producers and pet food manufacturers throughout the Americas. The product line includes active dry yeast for pelleted and non-pelleted feeds, inactive dry yeast, mineral yeast, enzymes, and mannan oligosaccharides.

SGS North America
236 32nd Avenue
Brookings, SD 57006
Booth(s): 317

SGS is the world's leading inspection, verification, testing and certification company. SGS is recognized as the global benchmark for quality and integrity. With more than 70'000 employees, SGS operates a network of over 1,350 offices and laboratories around the world.

SoyBest
PO Box 157
West Point, NE 68788-0157
<http://www.soybest.com>
Booth(s): 402, 501

SoyBest high bypass soybean meal is bypass protein for dairy cows. Manufactured using a mechanical process, it contains no chemical solvents and is all natural. SoyBest includes fresh soy gums with lecithin and phosphatidyl-choline. Research shows these nutrients behave like rumen-protected fat, resulting in even more bypass protein with excellent intestinal digestibility.

SoyPLUS, SoyChlor (West Central)
PO Box 68
Ralston, IA 51459-0068
<http://www.soyplus.com>
Booth(s): 609

SoyPLUS is the industry leader, consistently delivering dairy bypass protein, unbeatable protein quality, and intestinal digestibility. SoyPLUS contains research proven higher energy and rumen inert fat. SoyChlor has proven itself in effectively balancing DCAD in herd health. SoyChlor's key ingredient is hydrochloric acid, the most palatable source of chloride available.

Unity Scientific Inc.
117 Old State Rd
Brookfield, CT 06804
Booth(s): 314

Unity Scientific is a global leader in the design and manufacturing of near infrared instrumentation that serves a wide variety of applications in the animal science industry. Unity has just introduced a new Feed Analyzer and Dairy Analyzer that offers everything required to start analyzing samples with pre-loaded calibrations.

USDA–Animal Welfare Information Center
10301 Baltimore Ave, Rm 410
Beltsville, MD 20705-2326
<http://www.nal.usda.gov>
Booth(s): 605

The USDA is mandated by the Animal Welfare Act to provide information for the improved care and use of animals in research, testing, teaching, and exhibition. Staff at the Animal Welfare Information Center provide a variety of topical publications, literature searches, and training opportunities.

Varied Industries Corporation (Vi-COR)
905 S Carolina Ave, PO Box 1483
Mason City, IA 50401-5813
<http://www.vi-cor.com>
Booth(s): 514, 516, 613, 615

Vi-COR headquarters, located in Mason City, Iowa, was purchased in 1999 by Mark Holt, President, who changed the company into a world-class manufacturer of fermentation feed. An innovative company with many new discoveries in applied microbiology and fermentation chemistry put Vi-COR first in the market to develop a concentrated and liquid yeast culture and first to identify and guarantee metabolites associated with the benefits of yeast culture. This specialized process developing Celmanax can be seen in the health of your animals, production improvements, and return on investment and profitability. Vi-COR is currently doing business globally in over 40 countries.

Western Yeast Company
305 W Ash St
Chillicothe, IL 61523-1603
<http://www.westernyeast.com>
Booth(s): 416

Western Yeast Company was founded in 1932 and uses the Newhaven process for making yeast culture. This process makes live yeast cultures the old-fashioned way with no added carriers after double fermentation. Western Yeast Culture is an active, all-natural feed supplement designed specifically to improve animal nutrition.

Zinpro
10400 Viking Drive Suite 240
Eden Prairie, MN 55344
<http://www.zinpro.com>
Booth(s): 710, 809

Zinpro Performance Minerals are uniquely designed and manufactured to be the highest bioavailable trace mineral products on the market.

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MULTIMIN® 90
pre-treatment supports an
existing well-designed oral feed
program to help reduce multiple common
– and costly – health problems in dairy cows.

**THERE'S NOTHING MORE IMPORTANT THAN
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..... Dairy Industry
Trial data from **CORNELL UNIVERSITY** indicates
MULTIMIN® 90 pre-treated cows had:

Decreased somatic cell count (SCC)
from 299,660 to 218,964

Decreased incidence of mastitis:
Subclinical mastitis reduced
from 10.4% to 8.0% ($P=0.005$)
Clinical mastitis in multiparous
cows reduced from 25.4% to
19.7% ($P=0.03$)

Decreased incidence of endometritis
from 34.2% to 28.6% ($P=0.028$)

Decreased incidence of stillbirth
from 6.1% to 4.3% ($P=0.039$)



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NOTES

Downtown Phoenix



1. Hyatt Regency Phoenix
(ADSA HQ)

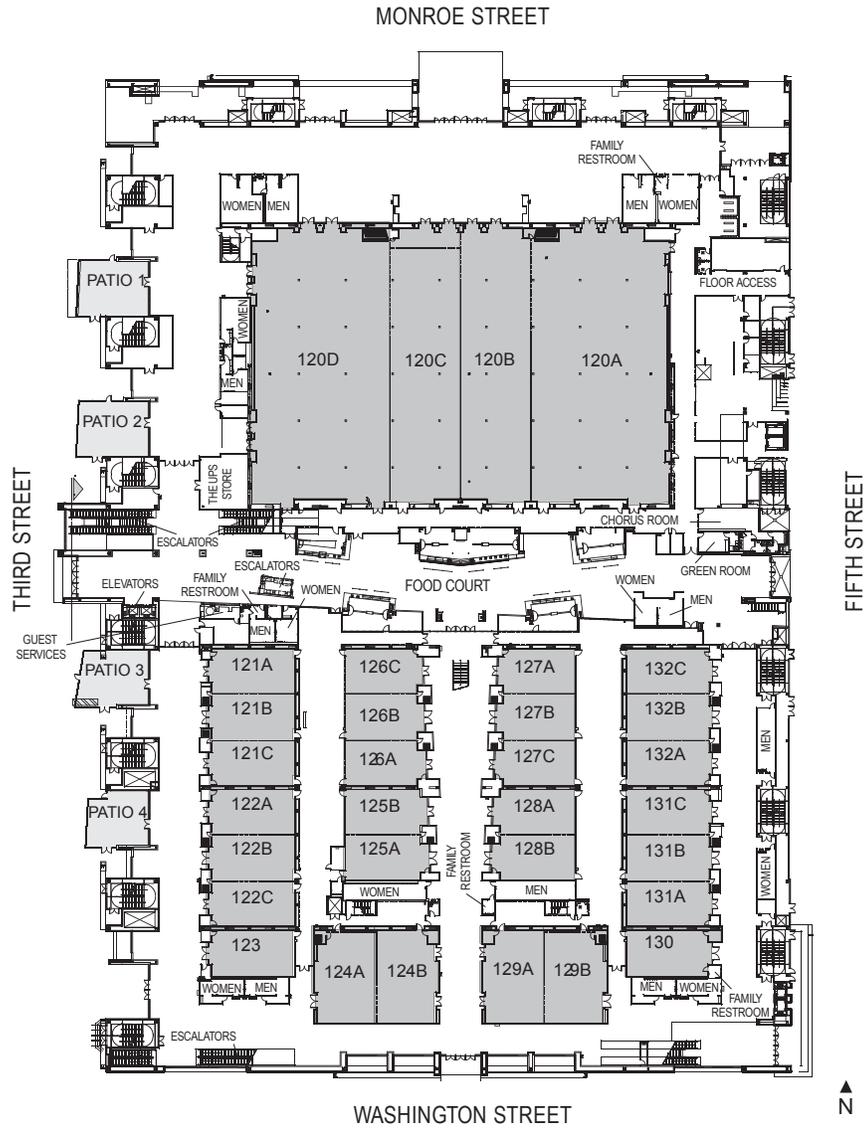
2. Sheraton Phoenix Downtown
(ASAS HQ)

3. Renaissance Phoenix
(CSAS HQ)

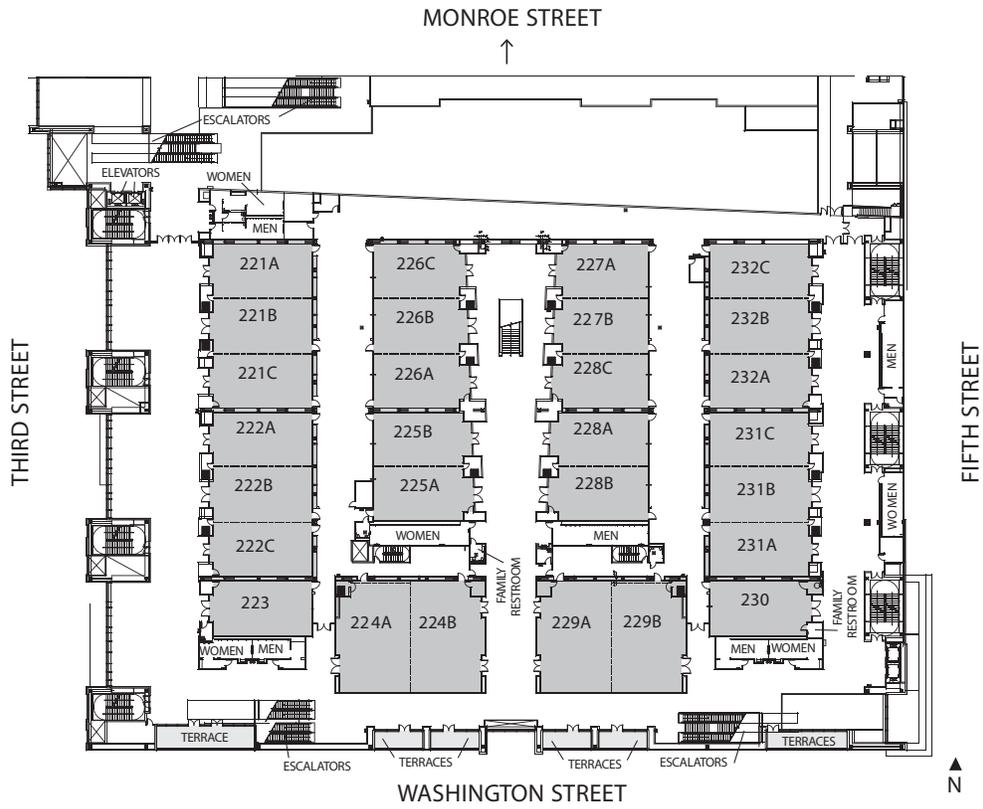
4. Springhill Suites
(Student HQ)

Phoenix Convention Center Map

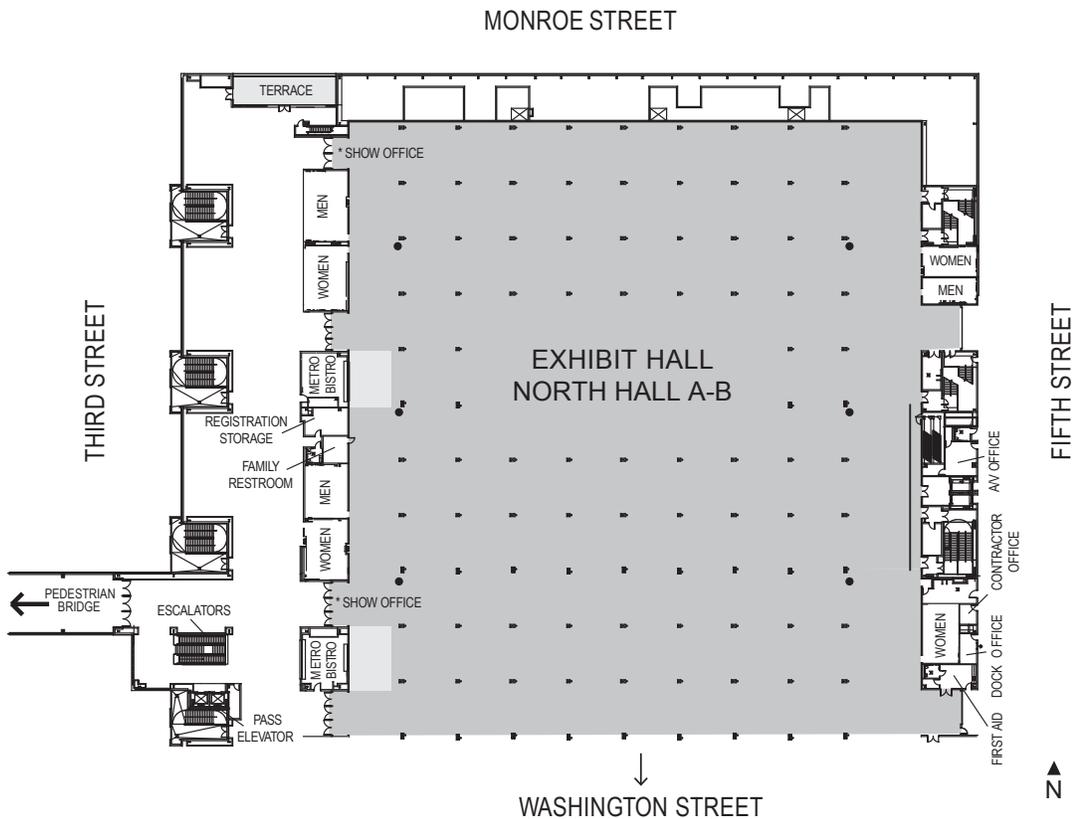
1st Floor



2nd Floor

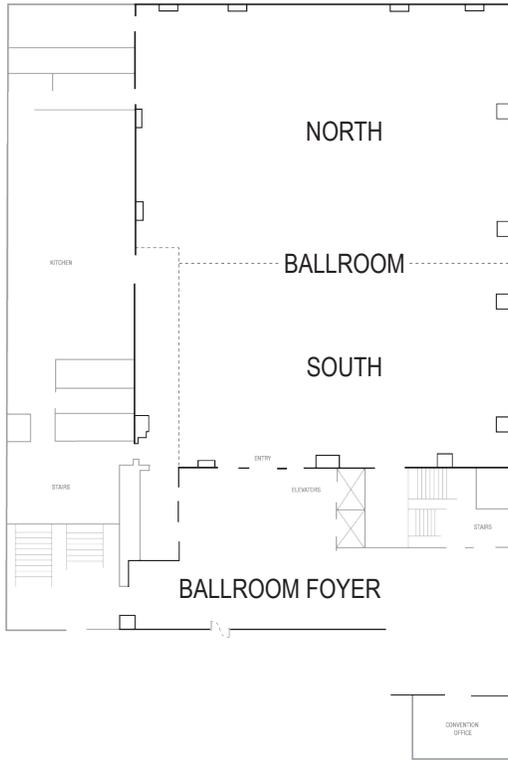


3rd Floor

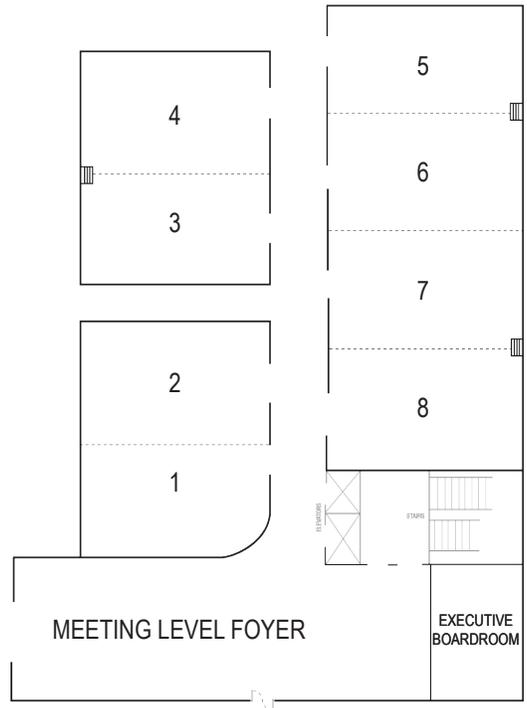


Renaissance Phoenix (CSAS HQ Hotel)

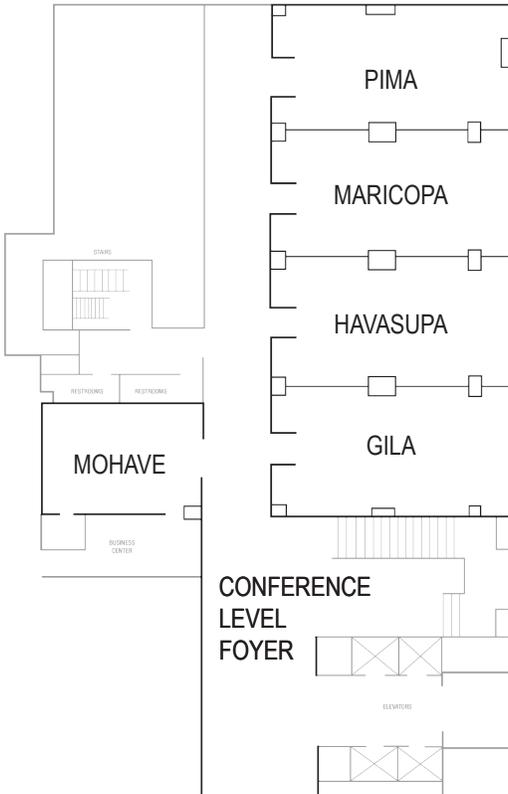
Ballroom Level



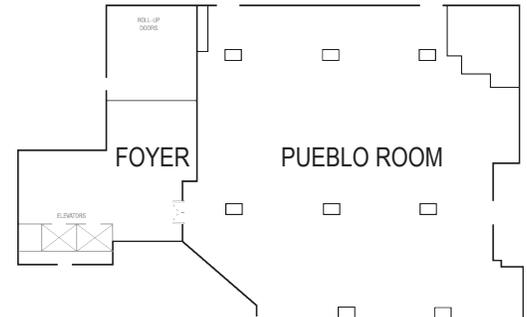
Meeting Level



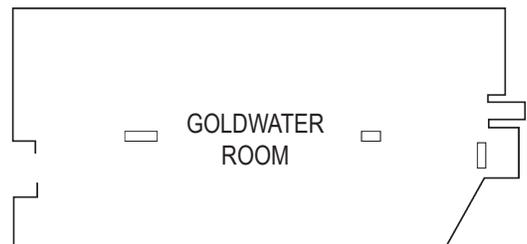
Conference Level



Street Level

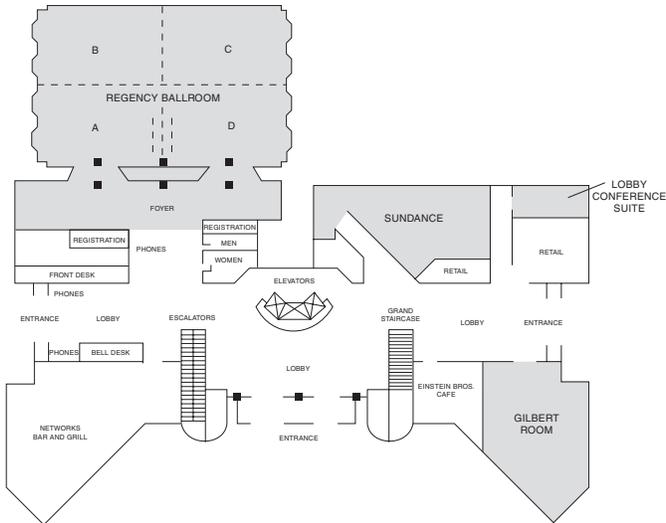


Lobby Level

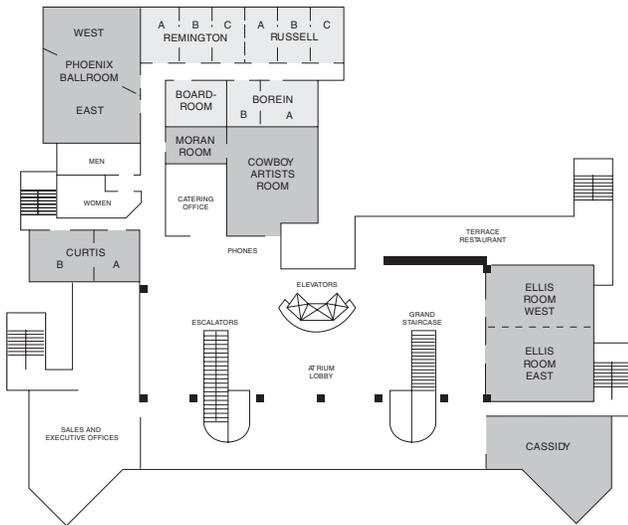


Hyatt Regency Phoenix (ADSA HQ Hotel)

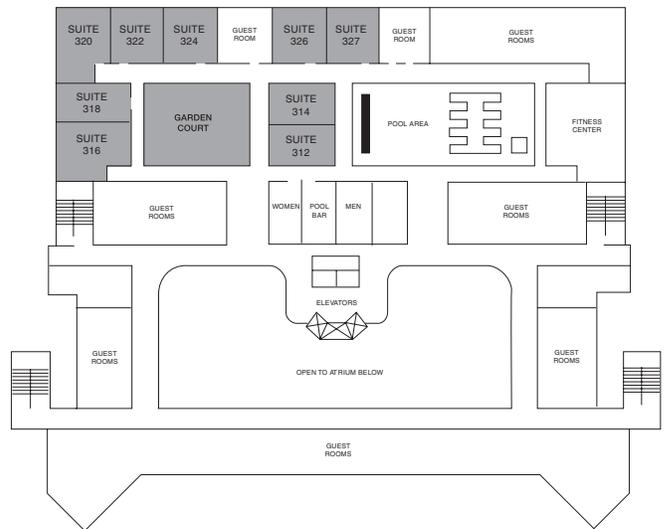
1st Floor



2nd Floor



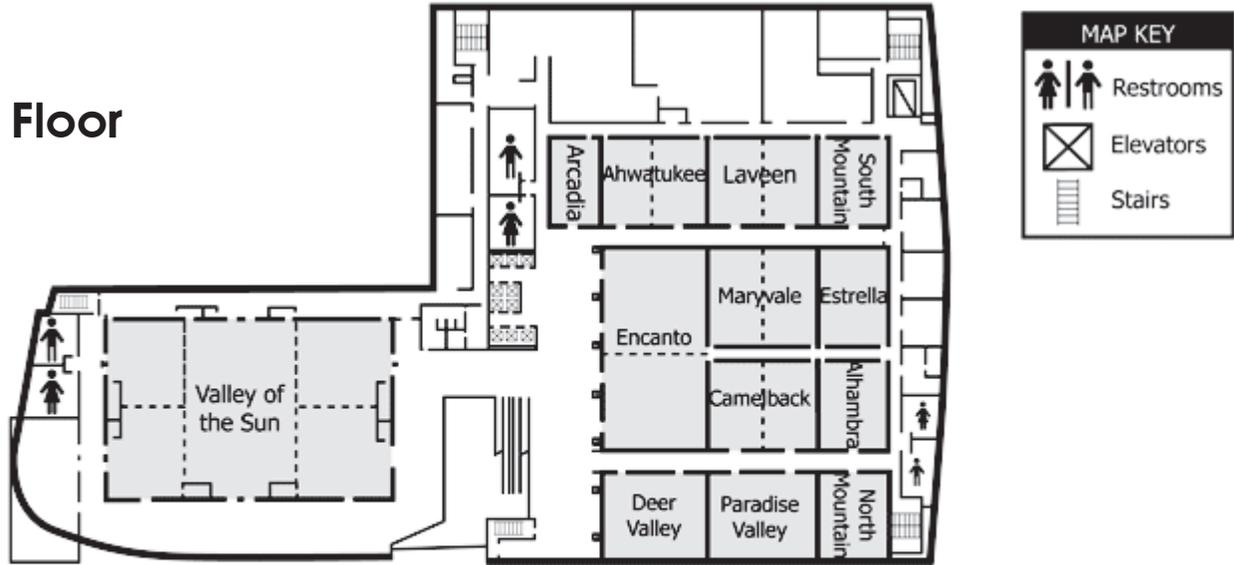
3rd Floor



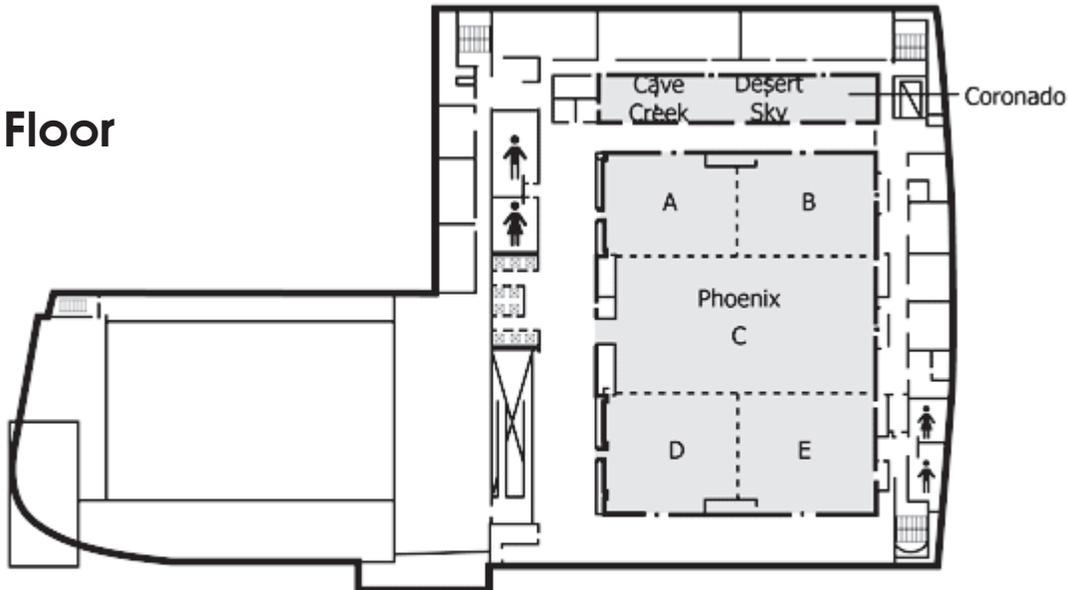
Maps

Sheraton Phoenix Downtown (ASAS HQ Hotel)

2nd Floor



3rd Floor



Thank you to the 2012 Joint Annual Meeting Sponsors!

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American Dairy Science Association
American Society of Nutrition
American Society of Animal Science (ASAS)
ASAS Foundation
CEV Multimedia

Dairy Research Institute/Innovation Center
for U.S. Dairy
Diamond V
United Soybean Board
USDA-National Institute of Food and Agriculture

Silver Level

American Registry of Professional Animal
Scientists (ARPAS)
BASF

DSM Nutritional Products
Monsanto Co.
West Central

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Ajinomoto Heartland Inc.
Archer Daniels Midland
Asociacion Argentina de Produccion Animal
(AAPA)
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Veterinary Medicine (CAAV)
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PCS Sales (USA) Inc.
College of Agriculture and Bioresources,
University of Saskatchewan
Department of Animal and Poultry Science,
University of Saskatchewan
Western College of Veterinary Medicine,
University of Saskatchewan

NOTES

Schedule of Events

*Scheduling and locations are subject to change without notice.
Please check the onsite newsletter each morning for changes.*

Monday, July 9 - Friday, July 13

8:00 am – 5:00 pm Genetics course: Genomic Selection in Livestock Sheraton Phoenix

Saturday, July 14

All day ASAS Undergraduate Academic Quadrathlon University of Arizona, Tucson
 7:00 am – 8:00 am ASAS Membership Committee Meeting Sheraton Phoenix, South Mountain
 7:30 am – 5:00 pm ADSA Board of Directors Meeting Hyatt Regency Phoenix, Sundance
 8:00 am – 9:00 am ASAS New Board Orientation Sheraton Phoenix, South Mountain
 9:30 am – 5:30 pm ASAS Board of Directors Meeting Sheraton Phoenix, Estrella
 1:00 pm – 5:00 pm ADSA-SAD-GSD Student Dairy Farm Tour. Springhill Suites Lobby
 3:00 pm – 5:00 pm Registration open (preregistered, badge and material pick-up only) Convention Center, North Hall AB Lobbies
 3:00 pm – 5:00 pm ARPAS Executive Committee Meeting Location TBD
 5:00 pm – 8:00 pm ARPAS Executive Committee Dinner. Location TBD
 7:00 pm ADSA-SAD Student Informal Mixer Majerle’s Sports Grill, 24 N 2nd St

Sunday, July 15

All day ASAS Undergraduate Academic Quadrathlon Sheraton Phoenix
 7:00 am – 7:00 pm Registration open Convention Center, North Hall AB Lobbies
 7:30 am – 10:00 am ADSA New Board Orientation Hyatt Regency Phoenix, Cassidy
 8:00 am – 12:30 pm ASAS Board of Directors Meeting Sheraton Phoenix, Estrella
 8:00 am – 5:00 pm ARPAS Governing Board Meeting Hyatt Regency Phoenix, Ellis East
 8:00 am – 5:00 pm Triennial Reproduction Symposium Convention Center, 121AB
 8:00 am – 5:00 pm American Society for Nutrition (ASN), ASAS, and ADSA Pre-conference Symposium Convention Center, 222AB and 222C
 10:00 am – 6:00 pm Exhibit Set Up Convention Center, North Hall AB
 10:00 am – 6:00 pm Student Dairy Clubs Set Up Exhibits Convention Center, North Hall AB
 10:00 am – 11:00 am ADSA-SAD Officers and Advisor Meeting Convention Center, 231B
 11:00 am – 12:00 pm ADSA-SAD Quiz Bowl Officials Meeting. Convention Center, 231A
 11:30 am – 12:00 pm ADSA-SAD Quiz Bowl Seating Test Convention Center, 224AB
 12:00 pm – 5:00 pm Hospitality Lounge open Convention Center, 221C
 12:00 pm – 1:00 pm ADSA-SAD Student Midday Mixer. Convention Center, 224AB
 12:00 pm – 1:00 pm ADSA JDS Editors and Journal Management Committee Lunch. Hyatt Regency Phoenix, Ellis West
 1:00 pm – 3:00 pm 2012 and 2013 Program Committee Meeting Convention Center, 122C
 1:00 pm – 5:00 pm ADSA Journal Management Committee Meeting Hyatt Regency Phoenix, Ellis West
 1:00 pm – 5:00 pm ADSA-SAD Quiz Bowl Seating/Preliminary Rounds. Convention Center, 231A and 231C
 1:00 pm – 6:00 pm CSAS Executive Committee Meeting Renaissance Phoenix, Salon 1
 2:00 pm – 3:00 pm ADSA Production Division Council Meeting Convention Center, 121C
 2:00 pm – 4:00 pm ADSA Foundation Board of Trustees Meeting Hyatt Regency Phoenix, Cassidy
 3:00 pm – 4:00 pm ADSA Production Division Nominating Committee Convention Center, 121C
 3:00 pm – 5:00 pm Late-Breaking Original Research Session Convention Center, 122AB
 3:00 pm – 6:00 pm ASAS Department Heads Meeting Sheraton Phoenix, Maryvale A
 3:30 pm – 6:30 pm WSASAS Executive Board Meeting Sheraton Phoenix, Estrella
 4:30 pm – 5:30 pm ADSA-South American Branch (SAB) Discussion Group (open to all). Convention Center, 122C
 5:00 pm – 6:00 pm ADSA Dairy Foods Division Council Meeting. Convention Center, 121C
 5:30 pm – 6:00 pm ADSA-SAD Quiz Bowl Final Round Convention Center, 231A

6:00 pm – 6:45 pm	ADSA Graduate Student Division Business Meeting and Open Forum	Convention Center, 231C
7:00 pm – 8:15 pm	JAM Opening Session	Convention Center, Symphony Hall
8:15 pm – 10:00 pm	JAM Opening Reception.	Convention Center, North 120A-D

Monday, July 16

All day	ASAS Undergraduate Academic Quadrathlon	Sheraton Phoenix
6:30 am – 8:00 am	ADSA Dairy Specialists/Dairy-Related Participants Breakfast	Hyatt Regency Phoenix, Remington
6:30 am – 5:15 pm	Registration open	Convention Center, North Hall AB Lobbies
7:00 am – 8:15 am	ADSA-SAD Exhibit Set-Up.	Convention Center, North Hall AB
7:30 am – 9:30 am	Poster Presentations.	Convention Center, North Hall AB
8:00 am – 9:00 am	Johne’s Disease Interest Group.	Convention Center, 230
8:00 am – 5:00 pm	Commercial Exhibits and ADSA-SAD Exhibits open	Convention Center, North Hall AB
8:00 am – 5:00 pm	Job Resource Center open	Convention Center, North Hall AB
8:00 am – 5:00 pm	Hospitality Lounge open	Convention Center, 221C
8:20 am – 5:00 pm	WSASAS Graduate Student Competition	Convention Center, 227AB
8:30 am – 9:15 am	ADSA-SAD Business Meeting	Convention Center, 231A
9:30 am – 10:30 am	ADSA-SAD Judging of Yearbooks, Scrapbooks, Annual Reports	Convention Center, 230
9:30 am – 10:30 am	ADSA-SAD Interviews for Outstanding Student and Advisor Awards	Convention Center, 231B
9:30 am – 10:30 am	Discover Conference Steering Committee	Convention Center, 229B
9:30 am – 10:45 am	ADSA-SAD Activities Symposium	Convention Center, 231A
9:30 am – 5:00 pm	Scientific Sessions	Convention Center
10:30 am – 12:30 pm	ARPAS Exam.	Convention Center, 130
11:00 am – 5:00 pm	ADSA-SAD Undergraduate Paper Presentations	Convention Center, 231A and 231C
12:30 pm – 2:00 pm	ADSA Graduate Student Division Career Insights Lunch.	Convention Center, 229B
12:30 pm – 2:00 pm	ASAS Past Presidents’ Lunch	Sheraton Phoenix, Valley of the Sun D
12:30 pm – 2:00 pm	ADSA Past Presidents’ Lunch	Hyatt Regency Phoenix, Cassidy
12:30 pm – 2:00 pm	ASAS Publications Committee Luncheon.	Sheraton Phoenix, Valley of the Sun E
12:30 pm – 2:00 pm	ASAS Undergraduate Pizza Party.	Convention Center, 229A
12:30 pm – 2:00 pm	American College of Animal Science Annual Meeting.	Convention Center, 130
2:00 pm – 4:00 pm	ARPAS Exam.	Convention Center, 130
2:00 pm – 5:30 pm	Southern Branch ADSA Symposium and Business Meeting.	Convention Center, 225AB
3:00 pm – 4:00 pm	ASAS Talks Change	Convention Center, 129AB
5:00 pm – 6:00 pm	FASS Science Policy Program Update.	Convention Center, 127C
5:00 pm – 6:00 pm	USDA-ARS Staff Update Session.	Convention Center, 222C
5:00 pm – 7:00 pm	Informal Calf Gathering.	Hyatt Regency Phoenix, Phoenix
5:30 pm – 7:00 pm	ASAS Award Winners Dinner and Photo Session	Sheraton Phoenix, Deer Valley
6:30 pm	ADSA-SAD Student Mixer: Pool Party.	Springhill Suites, Poolside
6:30 pm – 7:00 pm	ASAS President’s Picks	Sheraton Phoenix, Valley of the Sun foyer
7:00 pm – 8:30 pm	ASAS Awards Program.	Sheraton Phoenix, Valley of the Sun ABC
8:00 pm – 11:00 pm	Iowa State Reception	Sheraton Phoenix, Paradise Valley
8:30 pm	ASAS Awards Celebration.	Sheraton Phoenix, Valley of the Sun DE
8:30 pm	ASAS Undergraduate Academic Quadrathlon Finals	Sheraton Phoenix
9:00 pm	ASAS Graduate Student Mixer	Crescent Ballroom, 308 N. 2nd Ave., Phoenix

Tuesday, July 17

6:30 am – 8:00 am	Penn State Breakfast.	Hyatt Regency Phoenix, Remington
6:30 am – 8:00 am	University of Illinois Breakfast	Sheraton Phoenix, Maryvale A

6:30 am – 8:00 am	Kentucky Breakfast	Sheraton Phoenix
6:30 am – 8:00 am	JDS Editorial Board Breakfast/Meeting	Hyatt Regency Phoenix, Curtis AB
7:00 am – 5:15 pm	Registration open	Convention Center, North Hall AB Lobbies
7:30 am – 9:30 am	Poster Presentations.	Convention Center, North Hall AB
8:00 am – 9:00 am	ADSA Spokesperson/Media Training	Convention Center, 232A
8:00 am – 9:00 am	ASAS Investment Committee Meeting	Sheraton Phoenix, South Mountain
8:00 am – 5:00 pm	Commercial Exhibits and ADSA-SAD Exhibits open	Convention Center, North Hall AB
8:00 am – 5:00 pm	Job Resource Center open	Convention Center, North Hall AB
8:00 am – 5:00 pm	Hospitality Lounge open	Convention Center, 221C
8:30 am – 9:30 am	ADSA-SAD Business Meeting–Elec. of Officers	Convention Center, 231A
9:00 am – 1:00 pm	Spouse Event: Phoenix Architecture Tour	Meet in Hyatt Regency Lobby
9:30 am – 11:00 am	ADSA-SAD Career Roundtable	Convention Center, 232BC
9:30 am – 11:30 am	ASAS Foundation Board of Trustees Meeting	Sheraton Phoenix, South Mountain
9:30 am – 12:30 pm	ARPAS Symposium	Convention Center, 125AB
9:30 am – 5:00 pm	Scientific Sessions	Convention Center
11:30 am – 12:30 pm	ADSA Production Division Business Meeting	Convention Center, 231A
11:30 am – 12:30 pm	ADSA Dairy Foods Division Business Meeting.	Convention Center, 121C
11:45 am – 2:00 pm	ADSA-SAD Awards Lunch.	Convention Center, 224AB
12:30 pm – 2:00 pm	ASAS Foundation Heritage Lunch	Convention Center, 229B
12:30 pm – 2:00 pm	ADSA DF Division Milk Proteins and Enzyme Committee.	Convention Center, 231B
12:30 pm – 2:00 pm	ARPAS Business Meeting.	Convention Center, 125AB
12:30 pm – 2:00 pm	ADSA DF Division Program Planning Lunch	Convention Center, 232A
12:30 pm – 2:00 pm	ASAS Graduate Student Lunch and Learn	Convention Center, 229A
12:30 pm – 2:00 pm	CSAS Annual General Meeting and Lunch	Renaissance Phoenix, Salon 8
2:00 pm – 3:00 pm	ADSA-SAD Award and Club Photos	Convention Center, 232BC
2:00 pm – 4:00 pm	ARPAS Exam.	Convention Center, 130
2:00 pm – 6:00 pm	NE ASAS/ADSA Symposium, Business Meeting, Reception & Awards.	Convention Center, 122C
2:30 pm – 3:30 pm	ADSA-SAD Committee Meeting – Old and New Officers and Advisors.	Convention Center, 231B
3:00 pm – 4:30 pm	ADSA Graduate Student Division Dairy Tales	Convention Center, 231A
4:00 pm – 5:00 pm	ASAS JAS/Animal Frontiers Editorial Meeting, Open Forum, and Animal Frontiers Birthday Celebration.	Convention Center, 231C
5:00 pm – 6:00 pm	AnimalSmart.org Launch	Convention Center, 222C
5:00 pm – 6:00 pm	AMPA Meeting	Convention Center, 127C
5:00 pm – 6:30 pm	ADSA Award Donor Dinner	Hyatt Regency Phoenix, 2nd floor Atrium
7:00 pm – 8:00 pm	ADSA Awards Program	Hyatt Regency Phoenix, Regency Ballroom
8:15 pm – 9:30 pm	JAM Ice Cream Social, sponsored by ADSA	Hyatt Regency Phoenix, 2nd floor Atrium
9:00 pm – 12:00 am	ADSA Graduate Student Division Mixer	Brick, 455 North 3rd Street, Phoenix

Wednesday, July 18

6:30 am – 8:00 am	Purdue University Breakfast.	Sheraton Phoenix
7:00 am – 5:15 pm	Registration open	Convention Center, North Hall AB Lobbies
7:30 am – 9:30 am	Poster Presentations.	Convention Center, North Hall AB
8:00 am – 9:00 am	S-PAC Users Meeting	Convention Center, 232A
8:00 am – 2:00 pm	Job Resource Center open	Convention Center, North Hall AB
8:00 am – 2:00 pm	Commercial Exhibits open	Convention Center, North Hall AB
8:00 am – 5:00 pm	Hospitality Lounge open	Convention Center, 221C
9:30 am – 10:30 am	ASAS Business Meeting.	Convention Center, 225AB
9:30 am – 10:30 am	ADSA Business Meeting	Convention Center, 223
10:30 am – 12:30 pm	ARPAS Exam.	Convention Center, 130
10:30 am – 5:00 pm	Scientific Sessions	Convention Center
12:30 pm – 2:00 pm	WSASAS Graduate Student Lunch and Learn	Convention Center, 229A

12:30 pm – 2:30 pm	ADSA Board of Directors Meeting	Hyatt Regency Phoenix, Sundance
2:00 pm – 5:00 pm	Commercial Exhibits Dismantle	Convention Center, North Hall AB
2:30 pm – 4:30 pm	ASAS Board of Directors Meeting	Sheraton Phoenix, Estrella
4:30 pm – 6:00 pm	Global Networking Reception.	Convention Center, 224AB
6:00 pm – 9:00 pm	CSAS Awards Banquet	Renaissance Phoenix, South Ballroom
6:00 pm – 10:00 pm	WSASAS Awards Banquet.	Alice Cooperstown, 101 E. Jackson
9:00 pm – 12:00 am	Alltech/CSAS Graduate Student Mixer.	Renaissance Phoenix, South Ballroom

Thursday, July 19

7:30 am – 9:30 am	WSASAS Business Meeting.	Sheraton Phoenix, South Mountain
8:00 am – 1:00 pm	Registration open	Convention Center, North Hall AB Lobbies
8:30 am – 11:30 am	Scientific Sessions	Convention Center
8:30 am – 11:30 am	Breaking into NSF: Buzz words, key phrases, and what the National Science Foundation wants in a grant.	Convention Center, 127C
10:00 am – 12:00 pm	WSASAS Executive Board Post-Conference Meeting	Sheraton Phoenix, Maryvale A
12:00 pm – 5:00 pm	W1010 Meeting	Sheraton Phoenix, Maryvale A
2:00 pm – 5:00 pm	NIFA-AFRI Animal Nutrition, Growth, and Lactation Awardee Meeting.	Sheraton Phoenix, South Mountain

Friday, July 20

8:00 am – 5:00 pm	W1010 Meeting	Sheraton Phoenix, Maryvale A
8:00 am – 5:00 pm	NIFA-AFRI Animal Nutrition, Growth, and Lactation Awardee Meeting.	Sheraton Phoenix, South Mountain

ADSA Student Affiliate Division Program SAD Special Events

Saturday, July 14

ADSA SAD-GSD Student Dairy Farm Tour

Saturday, July 14

1:00 – 5:00 pm

Bus departs from Springhill Suites

Departing from the lobby of the SAD hotel, we'll go via motor coach to a Phoenix area dairy. Ticket price includes transportation and refreshments.

SAD Student Informal Mixer: Majerle's Sports Grill

Saturday, July 14

7:00 pm

Meet in Springhill Suites lobby or at Majerle's, 24 N. 2nd Street, Phoenix

Meet in the lobby of Springhill Suites at 6:30 pm or at the restaurant at 7:00 pm. Jump start the week with good food, good music, and good friends at the Saturday student mixer. Ticket price includes dinner.

Sunday, July 15

SAD Undergraduate Midday Mixer and Lunch

12:00 – 1:00 pm

Convention Center, 224AB

Join your fellow dairy clubs for a fun hour of getting reacquainted and making new friends, and get to know your 2012–2013 officer candidates. Lunch includes southwestern fare and drinks. Registration is limited to undergraduate students and advisors.

SAD-Dairy Quiz Bowl Final Round

5:30 – 6:00 pm

Convention Center, 231A

On Sunday, university teams from across North America will compete in the ADSA 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 2012 Dairy Quiz Bowl Winning Team.

Monday, July 16

ADSA-SAD Student Mixer

6:30 pm

Poolside, Springhill Suites

802 East Van Buren Street

Celebrate a great week at ADSA! Rock the night away with good music, good food and good friends, all poolside on a balmy Arizona night – it doesn't get any better than this! Ticket price includes soft drinks and snacks. Don't miss this perennial highlight of the meeting!

Tuesday, July 17

SAD Career Roundtable

9:30 – 11:00 am

Convention Center, 232BC

Students will have the opportunity to visit with industry professionals representing various facets of the animal agriculture industry. They 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 to visit industry reps in the exhibit hall for information about internships and job opportunities.

SAD Awards Lunch

11:45 am – 2:00 pm

Convention Center, 224AB

Plan to attend this year's SAD awards lunch. 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.

SAD Schedule of Events

Scheduling and location are subject to change without notice.

Consult the meeting website (<http://www.adsa.org/sad.asp>) for the latest program information.

Saturday, July 14

- 1:00 – 5:00 pm ADSA SAD-GSD Student Dairy Tour: Shamrock Farms Meet in Springhill Suites lobby
- 3:00 pm – 5:00 pm Registration Open (preregistered, badge and material
pick-up only) Convention Center
- 7:00 pm SAD Informal Gathering Majerle's Sports Grill, 24 N 2nd Street

Sunday, July 15

- 7:00 am – 7:00 pm Registration Open Convention Center, North Hall AB
lobbies
- 10:00am – 6:00 pm SAD Dairy Clubs Set Up Exhibits Convention Center, North Hall AB
- 10:00 am – 11:00 am SAD Officers and Advisor Meeting Convention Center, 231B
- 11:00 am – 12:00 pm Dairy Quiz Bowl Officials Meeting Convention Center, 231A
- 11:30 am – 12:00 pm Dairy Quiz Bowl Seating Test Convention Center, 224AB

12:00 pm – 1:00 pm	SAD Midday Mixer & Pizza Party	Convention Center, 224AB
1:00 pm – 5:00 pm	Dairy Quiz Bowl Preliminary Rounds	Convention Center, 231A and 231C
5:30 pm – 6:00 pm	Dairy Quiz Bowl Final Round	Convention Center, 231A
7:00 pm	ADSA Opening Session & Reception	Convention Center, Symphony Hall and North 120A-D

Monday, July 16

7:00 am - 8:15 am	SAD Dairy Clubs Set Up Exhibits	Convention Center, North Hall AB
7:30 am – 9:30 am	Poster Presentations	Convention Center, North Hall AB
8:00 am – 6:00 pm	Commercial Exhibits and ADSA-SAD Exhibits Open	Convention Center, North Hall AB
8:30 am – 9:15 am	SAD Business Meeting	Convention Center, 231A
9:30 am – 10:30 am	SAD Judging of Yearbooks, Scrapbooks and Annual Reports	Convention Center, 230
9:30 am – 10:30 am	SAD Interviews for Outstanding Student and Advisor Awards	Convention Center, 231B
9:30 am – 10:45 am	SAD Activities Symposium	Convention Center, 231A
9:30 am – 5:00 pm	Scientific Sessions.	Convention Center
11:00 am – 5:00 pm	SAD Undergraduate Paper Presentations	Convention Center, 231A and 231C
6:30 pm	SAD Mixer	Springhill Suites, Poolside

Tuesday, July 17

7:30 am – 9:30 am	Poster Presentations	Convention Center, North Hall AB
8:00 am – 5:00 pm	Commercial Exhibits and ADSA-SAD Exhibits Open	Convention Center, North Hall AB
8:30 am – 9:30 am	SAD Business Meeting – Election of Officers.	Convention Center, 231A
9:30 am - 11:00 am	SAD Career Roundtable	Convention Center, 232BC
11:45 pm – 2:00 pm	SAD Awards Luncheon	Convention Center, 224AB
2:00 pm – 3:00 pm	SAD Award & Club Photos	Convention Center, 232BC
2:00 pm – 5:00 pm	Tear-down SAD Exhibits.	Convention Center, North Hall AB
2:30 pm – 3:30 pm	SAD Committee Meeting – Old and New Officers & Advisors.	Convention Center, 231B
3:00 pm – 5:00 pm	Open to attend Scientific Sessions.	Convention Center
7:00 pm – 8:00 pm	ADSA Awards Ceremony	Hyatt Regency Phoenix, Regency Ballroom
8:15 pm – 9:30 pm	Ice Cream Social	Hyatt Regency Phoenix, 2nd floor Atrium

2012 ASAS National Academic Quadrathlon

July 13

Teams meet in Tucson, Arizona. University of Arizona will provide dinner and evening entertainment.

July 14

Lab practicum and written exam competitions. Teams meet at University of Arizona Livestock Facilities.

July 15

Oral presentations and Western Section Quiz Bowl. Teams meet on second floor of Sheraton Phoenix Downtown.

July 16

Morning: National Quiz Bowl Competition. Meet on second floor of Sheraton Phoenix Downtown.

Afternoon: Student pizza lunch organized by the ASAS Graduate Student Directors.

Evening: National Quiz Bowl Finals at Sheraton Phoenix after ASAS Awards Ceremony.

Workshop on Genomic Selection in Livestock

July 9-13, 2012

Sheraton Hotel, Phoenix, AZ

Course instructors: Dorian Garrick, Rohan Fernando, and Jack Dekkers (Iowa State University).

The purpose of the course is to provide graduate students and professionals in animal breeding and genetics with the basic theory and practical application of using whole genome SNP data for genetic evaluation and genome-wide association studies, using mixed linear and Bayesian methods. This course contributes to a graduate-level distance delivery curriculum in animal breeding and genetics, which is being developed with funding from the USDA-NIFA Higher Education Challenge Grants Program. Over the next three years, a consortium of seven universities (Virginia Tech, Colorado State, Iowa State, North Carolina State, and Kansas State Universities, and Universities of Nebraska-Lincoln and Georgia) will be engaged in the design and delivery of a series of asynchronous online courses, and several summer short-courses, focused on the integration of quantitative and molecular aspects of genetics. For information about the curriculum, contact Ron Lewis (rmlewis@vt.edu) or visit the website: <http://jtmgt.org/2012/genomic.asp>