

American Society of Agricultural and Biological Engineers



# Inside ASABE

News for and about ASABE members

April 26, 2017

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WELCOME  
New  
Members!

March  
2017

Click to see who's  
joined  
your network of  
colleagues

## From the Executive Director



President Maynard Herron and I were thrilled to take part in the Southeastern Regional Student Rally last month in Fayetteville, Arkansas. This was the first student rally that I've attended—and my first visit to the University of Arkansas—and it was a great experience.

More than 130 students from eleven biological and agricultural engineering (BAE) programs took part in a weekend packed with educational sessions, technical and cultural tours, and networking. The opening ice-breaker challenge to build the tallest tower possible out of uncooked spaghetti was a big hit, and the fun continued all weekend. ASABE past president and University of Arkansas BAE Department Head Lalit Verma was understandably proud of how well

everything went. Congratulations to student president Hailey Flatte and her team on a job well done!

Speaking of students, the upcoming May/June issue of *Resource* has a feature on the newly launched agricultural engineering degree program at the University of Wisconsin-River Falls. Supported jointly by UW-River Falls, UW-Eau Claire, and UW-Stout, this new program was developed in response to the many small and mid-sized companies in northwestern Wisconsin—as well as local operations of global corporations—that have had a difficult time attracting engineering graduates from outside the area. So far, the new program has been a success, and it's exciting to see our profession grow!

Darrin J. Drollinger  
Executive Director

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### 20th Annual 1/4-Scale Competition Set for June



Thirty university teams from the US, Canada, India, and Israel will vie for prizes and global

recognition for their design innovations in ASABE's 20th Annual International 1/4-Scale Tractor Student Design Competition. The competition will be held June 1-4, at the Expo Gardens in Peoria, Ill. The event is free and open to the public, so come out to help us celebrate our 20th anniversary.

The teams have spent the 2016-2017 academic year designing and building utility or recreational pulling tractors that they will present and demonstrate at the competition. Each team is supplied a set of Titan tires and one 31-hp Briggs and Stratton Vanguard Big Block Engine. They are responsible for acquiring all other components of their machines. The 1/4-Scale Competition is unique among student engineering design contests in that it provides a realistic "360-degree" workplace experience. A panel of industry experts judge each design for innovation, manufacturability, serviceability, safety, sound level, and ergonomics. Teams also submit a written design report in advance of the competition, and on-site they must "sell" their design, in a formal presentation to industry experts playing the role of a corporate management team. Finally, machines are put to the performance test in a demonstration comprising a series of tractor pulls, a maneuverability course, and a durability course.

Corporate sponsors for this year's event are AGCO, Briggs & Stratton, Campbell Scientific, Inc., Case IH, Caterpillar, Deere & Company, New Holland, SolidWorks, and Titan International. Additional support is provided by Claas, Danfoss, GSI Grain Systems, MacDon, Katie McDonald Photography RCI Engineering, Thomson, Central City Scale, igus Inc., and Miller Electric Manufacturing.

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### Spokane is Calling! Register Now for 2017 AIM and Tours

Enjoy Early Bird rates by registering now for the 2017 Annual International Meeting, July 16-19, 2017, at the Spokane Convention Center, in Spokane, Wash.

Detailed information is available for the meeting agenda overview, technical sessions, continuing professional development workshops, optional events, socials, tours, hotel accommodations, and travel. All events are available for registration. Optional events and tours have a minimum attendee requirement to be held. Be sure to register early for any of these that you are interested in to ensure a spot!

Hotels contracted for our 2017 ASABE Annual International Meeting are the Davenport Grand and the Doubletree by Hilton. Visit [www.asabemeetings.org](http://www.asabemeetings.org) for complete details.

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### Student Competition Deadlines Near; Presentations Are Part of

Upcoming  
ASABE  
CSBE/SCGAB  
Section  
Meetings  
and  
Other Events

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Michigan  
April 27

Red River Valley  
April 27

Minnesota  
April 28

Kentucky  
April 28

Louisiana  
May 12

Florida  
June 21-24

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Click  
for details

## Annual Meeting Program

Watch for these preprofessional competition activities at the 2017 ASABE Annual International Meeting, in Spokane:

- Undergraduate Poster Competition
- AGCO National Student Design Competition
- K.K. Barnes Student Paper Competition
- G.B. Gunlogson Student Environmental Design Open and Fountain Wars Competitions
- ASABE Agricultural Robotics Competition
- Boyd-Scott Graduate Research Award

Please note these upcoming student competition deadlines:

### **Undergraduate Poster Competition—Register by June 5**

Undergraduate ASABE members are invited to display research projects, for cash awards of up to \$500. The competition will take place Sunday, July 16, during the Annual International Meeting.

[More information](#)

### **AEM Student Trophy—entries due May 1**

Teams of undergraduate students from engineering and technology branches are invited to submit their branch websites listing records of activities and achievements throughout the year.

[More information](#)

### **AGCO National Student Design—entries due May 15**

This competition is designed to provide an opportunity for undergraduate student teams to submit professional-quality engineering design projects. Top teams will be invited to participate in an oral competition at the Annual International Meeting. Prizes for the top three teams, up to \$1,250.

[More information](#)

### **GB Gunlogson Student Environmental Design Open Competition—entries due May 15**

Undergraduate students are invited to submit environmentally or biologically related design projects to this competition. Prizes for top three teams, up to \$1,250.

[More information](#)

### **KK Barnes Paper Competition—entries due May 15**

Undergraduate students are eligible to submit technical papers for this paper competition. Top finishers will be invited to participate in an oral competition at the Annual International Meeting. Prizes for top three finishers, up to \$500.

[More information](#).

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## Hundreds of Continuing Education Offerings Available

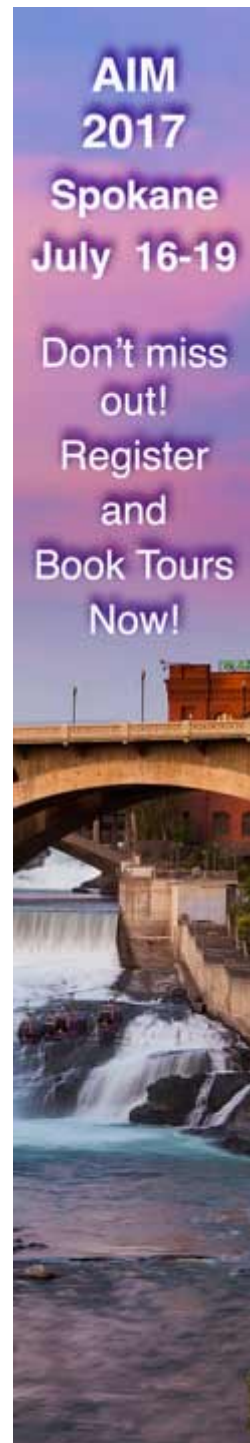
ASABE, in partnership with PDHengineer.com, brings you a valuable member benefit—online courses and webinars designed specifically to help professional engineers expand their knowledge base and meet the continuing education mandates of all state engineering boards. The flexibility of online courses allows you to complete them around your schedule and other commitments. And PDH credits are guaranteed to be accepted by all state boards.

Hundreds of offerings are available, which cover a wide range of topic areas. As a benefit of membership, members receive a 15% discount off all courses and webinars by entering the discount code, ASABE at checkout. Please visit the [ASABE Continuing Education Center](#) to learn more.

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## Standards Partner CSA Hosts ISO Meetings

ASABE members and other experts from across the globe were hosted last month by the Canadian Standards Association (CSA) for ISO meetings that covered a wide range of agricultural machinery design and safety topics. Convening in



Toronto were four subcommittees of ISO/TC 23, Tractors and Machinery for Agriculture and Forestry and several focused working groups:



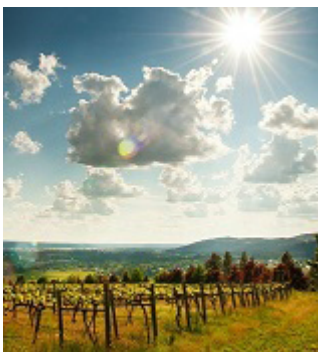
- ISO/TC23/SC2, Common tests
- ISO/TC23/SC3, Safety and comfort of the operator
- ISO/TC23/SC4, Tractors
- ISO/TC23/SC7, Equipment for harvesting and conservation (shown in photo)

Thanks are extended to Priya Malik, CSA Staff, and ASABE member Karl Klotzbach, CNH, for all of their efforts to host the meeting and make all of the attendees feel welcome.

Additional information on ISO/TC 23, its numerous subcommittees, and the ongoing work program can be found at: <https://www.iso.org/committee/47002.html>

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## Foundation Fundraising Activities Abound at Spokane AIM



Attending this year's annual international meeting? Make time for a little fun in support of a great cause.

The silent auction and raffle with great prizes; dinner at the beautiful Arbor Crest Wine Cellars, followed by a featured speaker; and the Gale Holloway Memorial Golf Outing at Spokane's scenic Sun Dance Golf Course—your ASABE Foundation has it all! Click [here](#) for more details.

Be sure and stop by the Foundation booth to learn more about the good work the Foundation does to support the agricultural and biological engineering profession. All proceeds from this year's activities

will benefit the [KEYS Fund](#)

See you in Spokane!

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## News from ASABE Publications

### Journals News: Public Access, Open Access

Certain journal articles are now marked for public access, some for a limited time in the [Technical Library](#). These recent articles include the introduction to a collection and other articles in the collection (limited time). These articles may be downloaded without a site license but may not be posted to other websites, except as allowed by our copyright policy. Optional open access rights may be purchased per article. See the [copyright form](#) for details.

### Search Engine Help for the Technical Library

Please see our [help page](#) on how to use Google to search our library. It also includes details on how to use our built-in search engine.

### AIM 2017 Paper-Upload Deadline June 9

Be sure to use the [2017 paper template and read the FAQ](#). You may also contact [Sandy Rutter](#) at . To have your paper in the Technical Library in time for AIM, please upload by June 9.

## EXPLORE - Student Focus - Advertising Due May 1

Agricultural technology and systems management students will be featured in a special issue of *Resource* magazine to be published later this year. For [more information](#), contact [Sandy Rutter](#).

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## Fasina Selected to Lead Auburn Department



ASABE Fellow Oladiran Fasina has been selected to lead Auburn University's Department of Biosystems Engineering. He assumed the role April 16. Fasina is currently a professor in the department and served in 2016 as the College of Agriculture's interim associate dean for research and interim assistant director of the Alabama Agricultural Experiment Station. The Department of Biosystems Engineering is operated collaboratively through colleges of Agriculture and Engineering.

Fasina came to Auburn as an assistant professor in 2002. He was named an associate professor in 2007 and a full professor in 2012. He was honored with the distinction of Alumni Professor in 2015 for his exceptional contributions to his department and to the university. Before coming to Auburn, Fasina had served as a food process engineer for the USDA's Agricultural Research Service.

Fasina completed a bachelor's and a master's degree in agricultural engineering from Obafemi Awolowo University in Ile-Ife, Nigeria, where he also served as an assistant professor from 1988 to 1990. He later completed his doctorate in agricultural and bioresource engineering from the University of Saskatchewan, where he served as a postdoctoral fellow from 1994 to 1998.

He is a 25-year member of ASABE.

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## Mizzou Celebrates 100 Years of Excellence



In a series of events spread over the past six months, the University of Missouri Department of Bioengineering has been celebrating its roots, with a third and final event planned for this Saturday, April 29.

With a history that dates to at least 1917, the

department traces its origins to agricultural engineering and has evolved over the years into the present bioengineering department, with a separate department of agricultural systems management.

Find more information about the department's celebrations, including the events planned for April 29, on the bioengineering department [webpage](#) and also on [Facebook](#).

ASABE congratulates our colleagues at Mizzou for a century of progress!

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## DiscoverE Announces New Faces Honorees

Congratulations to Brett Ramirez and Anna Kucera, top honorees in the Professionals and College Edition categories, respectively, in this year's New Faces of Engineering campaign.



The announcement was made via webcast earlier this month, by DiscoverE, sponsor of New Faces of Engineering and other outreach programs, like National Engineers Week and the Future City Competition.

Ramirez is completing his PhD at Iowa State University, where he has been conducting research on livestock housing and odor control, developing and testing sensor equipment to measure and improve the thermal comfort of livestock.



Kucera, an undergraduate at Kansas State University, is majoring in biological engineering and pursuing a minor in preveterinary medicine. She was 2016 winner of the ASABE Foundation Scholarship.

Find profiles of Ramirez, Kucera, and all this year's New Faces winners at [www.discovere.org](http://www.discovere.org).

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### Flores receives Outstanding Alumni Award



As an engineer and scientist in grain processing, New Mexico State University's Rolando A. Flores, dean of the College of Agricultural, Consumer and Environmental Sciences, has been selected to receive the Kansas State University Department of Grain Science and Industry's Outstanding Alumni Award. Flores was invited to receive the award at the Grain Science and Industry Student and Industry Awards Banquet on April 20 at KSU. The event also highlighted the awards and scholarships received by the department's students, faculty, and staff at the banquet.

"For me, the award means a lot," Flores said. "First of all, it's my alma mater. I did work on my dissertation there and I later taught grain science and was involved in their international grain program. This recognition is very rewarding. Also, it's a very strong recognition for our college and very prestigious for NMSU. It's a great recognition from the only formal grain science program in the U.S."

Flores earned his PhD in grain science at KSU in 1989, becoming one of only six PhDs in grain milling in the world at the time. His areas of research included processing systems simulation, economic feasibility studies of processing operations, product quality, and heat and temperature movement in stored grain.

From 1988 to 1990 at KSU, he taught the Management Factor in Milling Technology II in the Department of Grain Science and Industry. He taught the Processing Factor in the Agroindustrial Project Analysis short course, as well as Grain Storage and Marketing; Grain Grading, Storage and Handling. During that time, Flores went to Haiti as a leader of a technical assistance team to evaluate the milling operations of La Minoterie D'Haiti.

From 1990 to 1993, Flores worked in the Cooperative Extension Service's Department of Biological and Agricultural Engineering at KSU as an assistant professor and food engineering extension specialist. He developed and implemented programs to provide information and technical assistance to food producers and processors related to the design, selection, maintenance and utilization of processing equipment for enhancing agricultural products for food and non-food markets.

During that time, Flores also pursued funds for and directed the construction and operation of the Kansas Value-Added Thermal Processing Laboratory at KSU. He taught milling simulation and management short courses in the Department of Grain Science and Industry and conducted research on wheat processing, adding value to low-grade agricultural products, the development of thermoplastics from wheat and corn starch, the uses of foodservice processing waste, and the

measurement of physical properties of biomaterials.

Flores later worked as an associate professor at KSU from 1996 to 2001 and held the G.M. Ross Professorship. He taught graduate and undergraduate courses in grain milling engineering, grain processing, and mill management systems. Flores conducted research on the simulation and optimization of the wheat milling process, dry/wet sorghum milling, waste/residues from food industries, and the utilization of grain processing byproducts. He also taught grain processing courses in Mexico and Chile.

He is a 35-year ASABE member.

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## Harmon Named to Extension Post



ASABE Fellow Jay Harmon has been named the interim associate dean for extension and outreach programs and the interim director of Agriculture and Natural Resources Extension in the College of Agriculture and Life Sciences at Iowa State University.

Harmon joined ISU's agricultural and biosystems engineering faculty in 1993. His extension duties have focused on improved profitability and sustainability through systems approach to livestock housing, management of ventilation and heating systems for swine housing, and environmental modifications that improve swine conception rates. He led the Agricultural Systems and Environmental Stewardship Extension Group and from 2014 to 2015, he served as interim director of ISU's Iowa Pork Industry Center. Harmon teaches courses on subjects that include agricultural engineering design, swine environmental management, and ventilation of agricultural facilities. He conducts applied research on efficient and sustainable swine production systems.

Harmon is professor-in-charge of the Midwest Plan Service at Iowa State, which produces agricultural engineering publications and materials in collaboration with 12 Midwestern universities. He earned his bachelor's degree at Purdue University, his master's at University of Minnesota, and his doctorate at Virginia Tech, all in agricultural engineering. He is a 29-year member of ASABE.

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## Quad City Section Members Honored



At its annual Awards Meeting held on March 28, the Quad City section recognized several members for achievements and contributions to the section. Honored for

their work were, from left in photo: Jeremiah Johnson and Aaron Bruns, Outstanding Engineering Achievement; Bruce Coers, Member of the Year; and Cody Freehill, Young Member of the Year.

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## Recent Standards Activities

### Proposed Projects

- X271.3, Psychrometric Data
- X279.18, Lighting and Marking of Agricultural Equipment on Highways.
- X3463, Tractors for agriculture and forestry—Roll-over protective structures (ROPS)—Dynamic test method and acceptance conditions

- X5700, Tractors for agriculture and forestry—Roll-over protective structures - Static test method and acceptance conditions
- X12003P1, Agricultural and forestry tractors—Roll-over protective structures on narrow-track wheeled tractors—Part 1: Front-mounted ROPS
- X12003P2, Agricultural and forestry tractors—Roll-over protective structures on narrow-track wheeled tractors—Part 2: Rear-mounted ROPS

#### New Revisions

- ASAE S268.6 MAR2017, Terrace Systems
- ASABE/ISO 3767-1:2016 APR2017, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment—Symbols for operator controls and other displays—Part 1: Common symbols
- ASABE/ISO 3767-2:2016 APR2017, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment—Symbols for operator controls and other displays—Part 2: Symbols for agricultural tractors and machinery

#### New Standard

- ANSI/ASABE S620 MAR2017, Safety for Anhydrous Ammonia Application Equipment

#### Press Releases

- March 17, 2017, ASABE Publishes Safety Standard for Anhydrous Ammonia Application Equipment
- March 31, 2017, ASABE Revises Two Soil and Water Standards

For a complete listing of ASABE Standards project activities, including recent press releases, click [here](#).

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# Inside ASABE

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