

American Society of Agricultural and Biological Engineers



Inside ASABE

News for and about ASABE members

April 30, 2019

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From the Executive Director

Centennial celebrations are a big deal, so I was excited to join Oladiran Fasina, head of the Department of Biosystems Engineering at Auburn University, for a dinner and a section meeting celebrating his department's centennial. The department has created a nicely crafted video and an impressive history book to mark the occasion. It was also a treat to catch up with old friends Bob Schafer, Paul Turnquist, Steve Taylor, and many others. A special tribute was given to Jimmy Butt and Art Cooper, who were lifelong friends of the department and ASABE. They both passed away just last year after long and useful lives— Art was 100 and Jimmy was 96.



The centennial dinner also served as the dedication ceremony for ASABE's 59th historic landmark plaque (see photo at left), for the Cooperative Program of Rural Electrification, which will be placed at the

department's Tom E. Corley Building. Back in the 1920s, the Alabama Power Company (APC) reluctantly completed its first rural line down the Whitesburg Pike in Madison, Ala., providing service to ten farms, a cotton gin, and a dairy. Hoping to sell more power—rather than “just lighting a farmer's single lightbulb”—APC worked with Mark Nichols (professor and head of Auburn's then agricultural engineering department, and future ASAE president) to establish a cooperative program for rural electrification. This was the first agreement of its kind between a power company and an agricultural engineering department, and it lasted more than 50 years. [Click here](#) to learn

Join us in
welcoming
our most recent

NEW
MEMBERS

March
2019

[Click](#)



Upcoming
Meetings
and
Other Events

Louisiana
May 10

1/4-Scale
Competition
May 30

NABEC
June 16

Florida
June 26

more about ASABE's rural electrification historic landmark. Well done, Auburn ABEs, on your centennial celebration. War Eagle!

Darrin J. Drollinger
Executive Director

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GreenBiz Group's Makower to Keynote 2019 Annual Meeting



Joel Makower, chairman and executive editor of [GreenBiz Group](#), has been announced as this year's keynote speaker for the ASABE Annual International Meeting.

Nearly every company is assessing itself through the lens of sustainability. For a handful of leadership companies, it involves asking the question, "How do we compete in a world in which energy, water, materials, carbon and toxicity are constraints to growth?" Today, sustainability is not just about "doing less bad" or "greening the bottom line." It's about reducing risk—supply chain, reputation, financial and more. It's about growing the top line through innovation, new markets, increased productivity and increased ability to attract and retain talent. And, increasingly, it's about being regenerative and more resilient in a world facing resource constraints and climate challenges.

Lead author of the annual [State of Green Business report](#), Makower is a veteran journalist with more than 40 years' experience. He also hosts GreenBiz's annual [GreenBiz Forums](#), the global event series [VERGE](#), and other events. Makower is author of more than a dozen books, including his latest, *The New Grand Strategy: Restoring America's Prosperity, Security, and Sustainability in the 21st Century*. In 2012, Makower was awarded the Hutchens Medal by the American Society for Quality, which cited "his ability to tell compelling stories that both inform and inspire business leaders toward profitable action." In 2014, he was inducted into the Hall of Fame of the International Society of Sustainability Professionals.

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Twenty-Second Annual 1/4-Scale Competition Set for Late May



Twenty-nine university teams from the US, Canada, and Israel will vie for prizes and global recognition for their design innovations in ASABE's Annual International 1/4-Scale Tractor Student Design Competition. The competition will be held May 30 to June 2, at the Expo Gardens in Peoria, Ill. The event is free and open to the public.

Teams have spent the 2018-2019 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 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 onsite 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, Danfoss, Deere & Company, Kubota, New Holland, SolidWorks, Thomson, and Titan International. Additional support is provided by Claas, GSI Grain Systems, igus, MacDon, Katie McDonald Photography, Miller Electric Manufacturing, and RCI Engineering.

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More
Information



Earlybird
Registration
until
MAY 1



July 7 - 10
2019



Consider Yourself a Precision Ag Expert? O*NET Wants to Hear from You

The O*NET Data Collection Program, which is sponsored by the US Department of Labor, is seeking the input of experts in precision agriculture. The nation's most comprehensive source of occupational data, O*NET is a free resource for millions of job seekers, employers, veterans, educators, and students.

ASABE members have the opportunity to participate in this important initiative, and your participation will help ensure the complexities of your profession are described accurately in the O*NET database for the American public.

O*NET Description of Precision Agriculture Technicians

Apply geospatial technologies, including geographic information systems (GIS) and global positioning system (GPS), to agricultural production or management activities, such as pest scouting, site-specific pesticide application, yield mapping, or variable-rate irrigation. May use computers to develop or analyze maps or remote sensing images to compare physical topography with data on soils, fertilizer, pests, or weather.

You are considered an Occupation Expert if you meet the following criteria:

- You are currently active in the occupation (practicing, supervising, teaching and/or training) and based in the US
- You have a bachelor's degree and at least five years of experience in the occupation.

If you meet these criteria and are interested in participating, please contact Alejandra Madrid at RTI International, the O*NET data collection contractor, by [email](#) or phone 877/233-7348 x 108, and provide your name, address with city and state, daytime phone number, and email address. A random sample of experts responding to this request will be invited to complete a set of questionnaires (paper or online versions available). Experts who are selected and agree to participate will receive \$40.00 in cash and a certificate of appreciation from the US Department of Labor.

ASABE strongly encourages members to consider helping. Your input will keep information about your profession accurate and current for the benefit of our colleagues and the nation.

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AIM 2019 - Earlybird Registration Ends May 1; Presenting Authors Must Be Registered



ASABE 2019 Annual International Meeting
Marriott Copley Place, Boston
July 7-10, 2019
#ASABE19

The clock is ticking! Earlybird registration closes May 1. Don't miss this opportunity for savings—register today!

Optional events, CPDs, tours, and socials are all available for registration. For details, go to the meeting [website](#). Most events do have minimum and maximum capacities so be sure to register early!

Notice to authors of accepted abstracts

The *submitting* author serves as the contact for the submission and is the only individual who will receive email messages regarding submission status. If you are the submitting author, be sure that you share these messages with your *co-authors* and *presenting* author. The *presenting* author must be listed in the submission and be registered for the meeting by May 1 or the presentation will be removed from the program. If you have questions, please contact [Jessica Bell](#).

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AIM 2019 Paper-Upload Deadline May 1

Presenting at the ASABE 2019 Annual International Meeting? Be sure to use the [2019 paper template](#) and read the FAQ for instructions. If your paper is not submitted by midnight (EST) on May 1, it will not be in the Online Technical Library until after the meeting.

Contact [Sandy Rutter](#) with questions.

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Student Competition Deadlines Near

Preprofessionals, be sure to note the May 15 deadline for these ASABE student competitions:

AGCO National Student Design

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

G.B. Gunlogson Student Environmental Design Open Competition

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

Undergraduate students are invited to submit technical papers to 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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Convert Your AIM Paper to a Peer-Reviewed Journal Article

Get published in one of our peer-reviewed journals. Your annual meeting paper has a very similar format to our journals making it easy to move ahead. To get started quickly, read the [overview](#).

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New for AIM 2019: Industry-Focused Speed Networking Session



AIM 2019 Industry Networking Session July 7, 7:30 to 8:30 pm

Networking—It's one of the many valuable benefits of ASABE membership. And nothing beats face-to-face interaction.

For those AIM attendees interested in sitting down with various industry professionals to learn more about what it's really like working in industry, we're offering a speed networking session you'll want to attend.

Who should attend?

This session is perfect for mid-career folks seeking advice about a possible move into management or maybe you're fairly new to industry and want to talk to someone with more experience. Students will especially find value in this session, as you ponder life after graduation. Participants register as either mentors or mentees. Brief mentor biographies will be provided so mentees can select mentors of interest in advance. Every 10 minutes mentees move from table to table, while mentors stay at the tables to host and encourage conversation. To date, we have about a dozen mentors lined up representing a variety of technical interests. This hour-long session allows enough time to gain insight from multiple perspectives. Be sure to save space for this valuable session on your AIM registration form. And check out the other industry-focused technical sessions on the agenda as well. There's sure to be something of interest across all technical areas.

Working in industry and interested in serving as a mentor? Please contact [Sue Nokes](#) for more details.

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Renew Your 2019 Print Journal Subscriptions

Did you forget to renew your 2019 print journal subscriptions? In this age of rapidly changing technology, ASABE journals can help you keep pace with important developments that affect your career.

It's not too late to renew. Contact [Sandy Rutter](#) 269/932-7004. For the 2019 prices, visit www.asabe.org/OrderPeriodicals or contact Subscriptions@asabe.org

[*Applied Engineering in Agriculture*](#)
[*Journal of Agricultural Safety and Health*](#)
[*Transactions of the ASABE*](#)

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Foundation Fundraising Activities Abound in Boston

Attending this year's annual international meeting? Make time for a little fun in support of a great cause. The silent auction is being given a hiatus this year, but there's still plenty to enjoy. All proceeds will benefit the [KEYS Fund](#).

Gale Holloway Memorial Golf Outing

Sunday, July 7, tee times begin at 8:00 am; \$120 includes green fees, cart rental, and lunch

Enjoy a sporting morning with colleagues on the [William J. Devine Golf Course at Franklin Park](#) (phone 617-265-4084). The course was established in 1896 and is the second oldest public golf course in the nation behind Van Cortlandt Park in the Bronx. From tee to green, you will find a variety of challenges and discover why over the years *Golf Digest* has rated this course as one of the best places to play.



ASABE Foundation Dinner

Tuesday, July 9, 7:00 to 10:00 pm; \$150 per plate, \$125 for students

Join us for a truly Boston dining experience—from lobster to Boston cream pie—in the elegant Staffordshire Room of the

Westin Copley Place overlooking historical Copley Square, a three-minute walk from the Marriott. After dinner, enjoy an engaging presentation by ASABE Fellow Chandra Madramootoo, who will share his deep insights on feeding nine billion people in a resource-constrained world. The Foundation dinner is the pinnacle AIM event for good conversation, food, drink, and entertainment—the single best opportunity to mingle outside of your usual circles, network with fellow members, and enjoy the sights.

ASABE Foundation Raffle

Purchase your raffle tickets from Foundation members at the Foundation booth near the registration area for some really great prizes. Stay tuned for further information.

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ASABE Technical Library - One of Your Most Valuable Member Benefits

Want to stay up to date on the latest research, technology, and best practices? Of course, you do. And that's what makes the Technical Library an indispensable benefit of membership.

Take note of the following to make the most of your access:

- Check out www.asabe.org/TechnicalLibraryHelp on how to use Google to search the technical library.
- Member credits for the Technical Library are being restocked for 2019. Your annual membership in ASABE provides you with credits for five standards and 100 other full downloads from elibrary.asabe.org.
- The DOI number is the best way to share and link to an article in our library. If ASABE were to change web servers, the DOI will continue to point to the new location. For example, the URL <https://doi.org/10.13031/trans.59.11347> will redirect users to the current location of the article in our library.

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Highlight Your Academic Program in "Capstone" Special Issue

Gain publicity for your program in a student-focused special issue of *Resource* magazine. We're offering advertising packages that include copies of the issue for recruitment purposes. This issue is published only every three years. See the [previous issue](#) as an example.

The issue will mail in September 2019 and will illustrate the capstone experiences that integrate and synthesize what students have learned in agricultural and biological engineering programs. In addition to magazine subscribers, this issue is distributed via Engineers Week activities, the FFA National Convention, requests for career materials, and other outreach and is used for student recruitment purposes.

If you plan to advertise, please notify ASABE by June 1 and return this [order form](#). Please provide the ad copy by June 15. Contact [Sandy Rutter](#) for information, phone 269/932-7004.

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ASABE Standards Team Tours CNH Racine Plant



As part of a trip to Wisconsin to attend industry meetings, ASABE members at CNHi arranged for Standards leaders to be included in a tour of their Racine tractor plant. The visit provided an excellent opportunity to see firsthand the implementation of many ASABE and ISO standards. The tour included access to the new [Racine Experience Center](#), which showcases a number of new and historical tractors, stretching back over a hundred

years.

Shown in photo, clockwise from bottom right: Mike Lyons, ASABE Standards & Technical council vice chair and international chair for ISO/TC23/SC2, Common Tests; ASABE staff members Scott Cedarquist and Carla VanGilder.

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Soupir Honored by Iowa State



Michelle Soupir, associate professor of agricultural and biosystems engineering, Iowa State University, is the recipient of the 2019 McNair Scholars Faculty Mentor of the Year award. Each year, the Ronald E. McNair Scholars Program awards the McNair Faculty Mentor of the Year achievement to one faculty member in recognition of their work for the program and for exceeding the program's mentor expectations. Faculty are nominated by the McNair Scholars they mentor, and Soupir was nominated for her great connection and meaningful interactions with her mentee.

The McNair Scholars Program is designed to prepare qualified undergraduate students to enter a PhD program following their graduation. The program supports students from traditionally underrepresented groups in higher education, including first-generation and low-income students.

Soupir is a 22-year member of ASABE.

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Biofuels Standards Champion Melin Set to Retire

After a long and distinguished career, Staffan Melin is planning to retire. Melin is best known by ASABE and CSBE members for [his work with wood pellets](#) and safe use of this important biofuel. He was also very active in ISO Technical Committee 238, Solid Biofuels, and worked to align Canada and the US during the development of key international standards.

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Fouss Receives Royce J. Tipton Award



The American Society of Civil Engineers has honored ASABE Fellow James L. Fouss with the 2019 Royce J. Tipton Award for significant contributions to the advancement of agricultural drainage and water management through research, technology transfer, and service. Fouss had a distinguished 46-year career with USDA-ARS as an agricultural engineer and research leader, retiring in 2011.

Fouss is recognized as a world leader in agricultural drainage. From 1960 to 1972, he conducted original and pioneering research and development of 4-in.-diameter polyethylene plastic corrugated-wall drainage tubing, and the laser-beam automatically controlled plow-type equipment for rapid and accurate subsurface drain installation. He directed and supervised fabrication and testing of prototype corrugated plastic tubing, plow equipment, and the laser-beam grade-control system using modeling/simulation and laboratory and field experiment methods, and provided technical assistance in developing the first ASTM standard and specification for corrugated high-density polyethylene plastic tubing based on research findings and product testing.

Fouss has authored more than 160 technical journal articles, bulletins, and conference proceedings, ten book chapters, sixteen US and two foreign patents (while in industry), and many technical reports and private engineering consulting reports on corrugated plastic pipe design.

He is a 57-year member of ASABE.

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AAAS Seeks Women for If/Then Ambassadors Program

The AAAS IF/THEN Ambassadors program brings together 100 women from a variety of science, technology, engineering, and mathematics careers to serve as high-profile role models for middle school girls. The program highlights women in STEM who are contributing in all these fields, showing girls the different career pathways they can pursue and how STEM impacts their lives every day. Ambassadors will gather for in-person summits, create personal press kits that highlight their stories and take their outreach to the next level, be featured in original entertainment and media content, and engage with middle school girls in formal and informal educational spaces.

Applications for the program are open now and will close July 21. Ambassadors will be selected in two cycles:

Selection cycle 1: Applications received from now until 11:59 pm ET May 15, 2019; selection announcement early July 2019

Selection cycle 2: Applications received between 12:00 am ET May 16 and 11:59 PM ET July 21, 2019; selection announcement early September 2019

To learn more, visit <https://ifthen.aaas.org>.

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