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## February 2021

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## From the Executive Director



Our BIPOC group (Black, Indigenous, and People of Color) has done a fantastic job highlighting members and fun facts on Twitter in honor of Black History Month. Follow @ASABE\_BIPOC and check it out.

ASABE Fellow Essex Finney is one of the members highlighted, and it was my pleasure to talk with him recently. Dr. Finney has been an ASABE member for

61 years, and he was a pioneer in agricultural engineering and our Society.

Dr. Finney told me that he became interested in agricultural engineering when his family got a tractor for their farm. After he graduated from high school in 1954, he was determined to earn a BS degree and work for Ford Motor Company making tractors. He was one of the first African-American students at Virginia Tech, and he earned his BS in agricultural engineering in 1959. Department Head Earl Swink convinced him to continue with school, and that was a decision that changed the trajectory of his life. Dr. Finney went on to earn an MS from Penn State in 1960, and in 1963 he was the first African-American to receive a PhD in agricultural engineering from Michigan State.

Dr. Finney had a long and distinguished career (1965-1995) with the USDA and served as senior policy analyst in the Office of the Science Advisor under Presidents Carter and Reagan. In the early 1970s, he was elected to the ASAE Board of Directors, representing the Food Engineering Division, and he has remained engaged with the Society ever since. In 1983, he was named an ASAE Fellow, and in 1994 he was inducted into the National Academy of Engineering. The [History Makers organization](#) has a wealth of information on Dr. Finney, and Virginia Tech has great [historical photos](#) and an excellent [one-hour audio interview](#). Dr. Finney told me that he has been truly blessed. I agree, and we are blessed to have him as a member.

Darrin J. Drollinger  
Executive Director

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# Finals Days to Cast Your Ballot in ASABE Leadership Elections



Here's one last reminder to cast your ballot in this year's leadership elections: Balloting closes March 1.

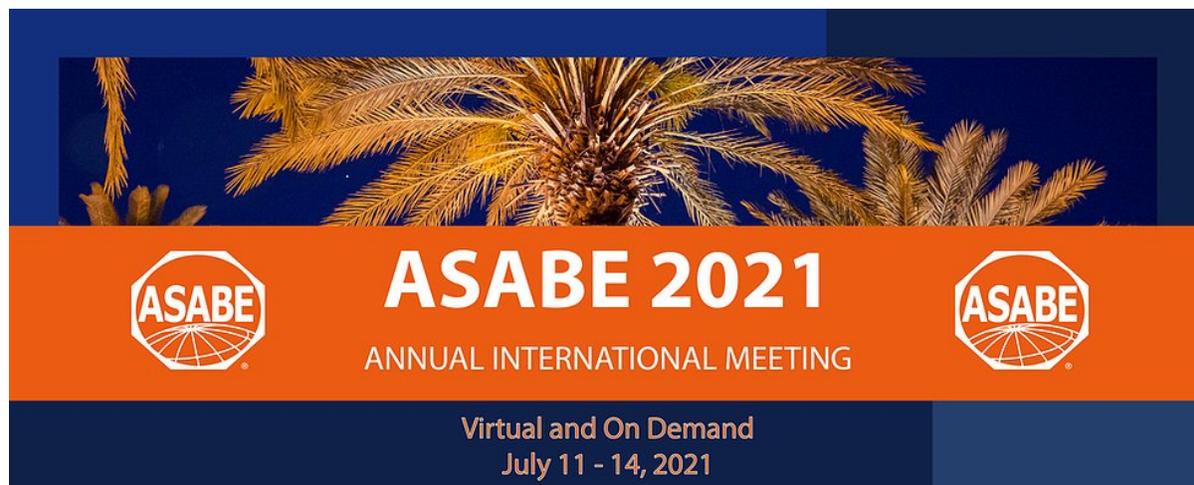
Members were sent an email from Intelliscan on January 7 that included instructions and a secure link to the balloting website. If you haven't voted, check for your email message, click on the link, and vote. It's that simple! Not seeing the email? Please check your junk file.

Thanks to those who have already voted! Your vote validates the importance, to you and to ASABE, of the work for which these [candidates](#) have volunteered.

Contact [Joann McQuone](#) (269/932-7022) with any questions you may have about the process.

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**Have a social or business meeting you want to host during AIM?**

**Deadline April 1**

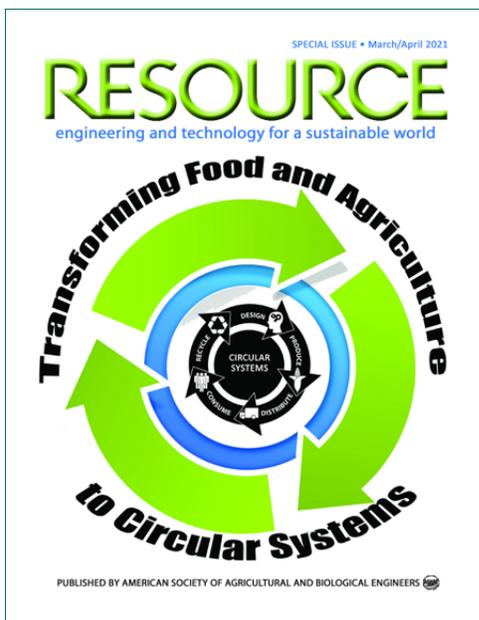
*Put your request in soon before the available slots are filled!*

[Submit your event](#)

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## Circular Economies Initiative the Focus of New Resource



The March/April issue of *Resource* magazine is now available online, with a special focus on circular economics

To meet the world's growing demand for food, given the reality of climate change and resource depletion, we must do more than increase production. We must re-imagine our production systems. The new issue of *Resource* introduces a newly established [society priority](#), transforming food and agriculture to circular systems, to which the Board of Trustees has committed resources and is recruiting partners.

This extra-length special issue explores the transition from traditional linear production to efficient circular production, and it presents the findings of an expert ASABE Roundtable on how to achieve circularity in open-field production, controlled-environment production, and livestock production.

controlled-environment production, and livestock production.

You are encouraged to join the discussion, #getinvolved, and add your expertise to this bold new initiative as it develops. Watch for news on special sessions at the 2021 annual meeting, a special collection to be published in [Transactions of the ASABE](#), and more.

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## Fellow Nominations Open

*"A Fellow shall be an engineer of unusual professional distinction, with outstanding and extraordinary qualifications and experience in, or related to, the field of agricultural, food or*

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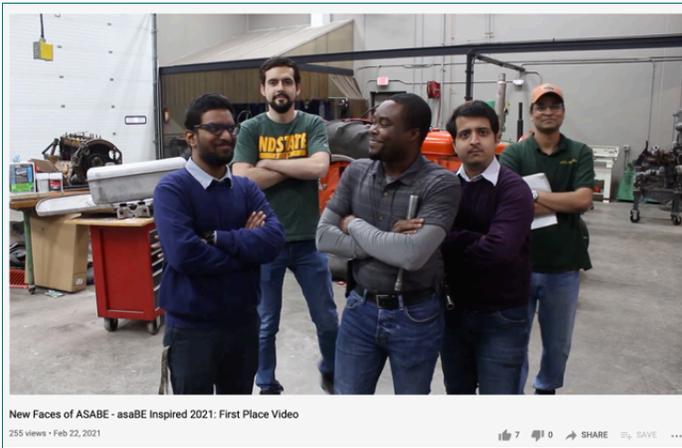
Do you know of someone worthy of this prestigious honor? If so, and if the individual has been a member of ASABE for at least 20 years and has actively practiced in, or related to the profession of engineering, the teaching of engineering, or the teaching of an engineering related curriculum for at least 20 years, consider nominating for Fellow of ASABE for 2022.

Nominations are due April 15, and instructions and eligibility requirements can be found on the [Fellows webpage](#).

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## Young Members Delight and Inspire with Videos



Among an array of *extraordinary* entries that featured clever animations, deeply moving stories, and even an inquisitive cat, it was a collaboration by a quintet of young ASABE members—"on the frontline fighting hunger"—that topped this year's New Faces of ASABE One-Minute Video Competition.

A \$2000 grand prize was awarded for the [winning entry](#), submitted by Nitin Rai, Billy Ram, Diego Jose,

Harsh Pathak, and Bleck Tita, from the University of North Dakota. [Lori Duncan](#) and [Gilbert Miito](#) each earned \$750 for their Honorable Mention entries, while Special Mention awards of \$150 went to [Jane Halloran](#) and [Sasireka Rajendran](#).

[Ranjan Sapkota](#) and [Uday Vaddevolu](#) pocketed some "ASABE Bucks" for their fan-favorite videos, each of which garnered more than 1000 views and likes on YouTube.

Judges were swept away by the creativity and passion with which personal stories were shared, and you will be, too. Enjoy the [full playlist](#) of videos, and be sure to like and share!.

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Thank you to the AETC planning committee for organizing another interesting and detailed conference! 2021 marked the 25<sup>th</sup> event.

Because this year's conference was virtual, attendees have the unique opportunity to watch all of the technical content through June with your registration.

Registration is still available for those that would like to get access to all of the invited speakers and AE50 presentations. All of the information on how to register can be found at [asabe.org/AETC2021](https://asabe.org/AETC2021).

Have ideas for a session topic? Would you like to be involved in planning the next conference? We welcome your involvement—contact [Jessica Bell](#) for details.

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## Starting a Startup? Entrepreneurs Offer Insights

### Career Spotlight Webinar: Luke Zwilling and Eric Snodgrass

March 9, 1 pm (eastern time; 1 hour with Q&A)



Have you ever thought about becoming part of a startup business? Maybe you have and want some pointers on taking the leap to becoming an entrepreneur and engineer. ASABE member Luke Zwilling and meteorologist Eric Snodgrass were involved in a venture called Agrible, Inc, and they've offered to lend their insights on the start-up process.

Agrible provides real-time agronomic information and sustainable solutions through long-term, scalable sustainability programs for agricultural and other businesses. Join YPC as we learn more about their career choices, the opportunities they seized, and the advice they have for those considering a major career change.

[Register](#)

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## Hosts Sought for Speed-Networking Event at 2021 AIM



Planning for ASABE's 2021 Annual International Meeting is in full swing. The Young Professionals Community is sponsoring an industry-focused speed networking event and is in search of breakout-room hosts.

If you have interest in this lively and rewarding event, please email [Sushant Mehan](#) for more information.

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## Grad School Tips and Tricks

Are you considering grad school or applying to grad school soon? Get your questions answered and network with current grad student ASABE members at the Grad School Tips & Tricks Panel. Hear from current grad students, professors, and admissions staff about the application process, how to find a research advisor, and tips for success! The Zoom event will be held April 7 at 11:00 a.m. (central time).

[Sign up now!](#)

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## **New! Orientation and Updates for 2021 Student Competitions**

The 2021 student competitions will follow a virtual format this year to coincide with the virtual Annual International Meeting. This meeting is an opportunity to learn about student competitions, understand how each competition will be help virtually, and you will have time to talk directly to student competition coordinators.

[Learn more and register](#)

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## **Editorial Board Finalizing New Model for Page Charges**

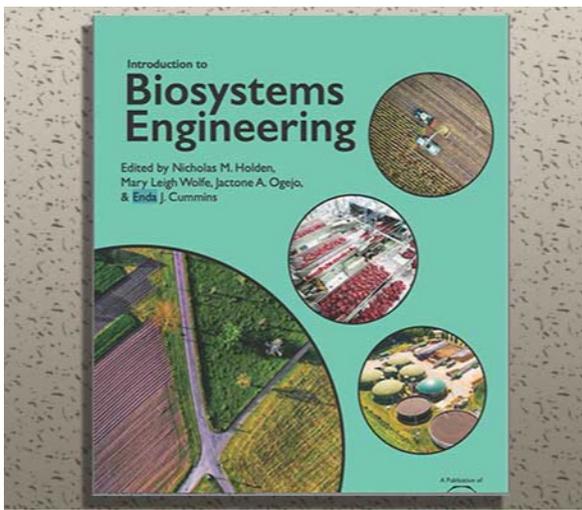
During a special meeting in January, the Board of Trustees took the action to boost advancement of ASABE journals through an enhanced page charges policy. The editorial board will be determining implementation details.

Watch for specifics to be presented at the 2021 annual meeting.

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## **Biosystems Engineering Open-Access Textbook Now Available**



The new [Introduction to Biosystems Engineering](#) textbook is now available online or as a print edition.

This open-access text is targeted at first- and second-year university-level students and is available for download as individual chapters or as a whole, including EPUB format. You may also propose a new chapter or contribute to updates. See the [full story](#).

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## Distinguished Lecture Series Presented at AETC

The latest installment of the ASABE Distinguished Lecture Series, a highlight of the 2021 Agricultural Equipment Technology Conference, is now available in the [ASABE Online Technical Library](#).

[“ISOBUS—The Open Hard-Wired Network Standard for Tractor-Implement Communication, 1987-2020”](#) was presented by Timo Oksanen and Hermann Auernhammer, Technical University of Munich, Germany. You can also view the video online.

The Lecture Series was developed by the Machinery Systems committee (MS-47) of ASABE to provide in-depth design resource information for engineers in the agricultural industry. Topics are related to the power plant, power train, hydraulic system, and chassis components such as operator environment, tires, and electrical equipment for agricultural or industrial tractors or self-propelled agricultural equipment.

ASABE is grateful to Deere & Company for sponsoring the ASABE Distinguished Lecture Series.

Access the current and previous series by going to the ASABE Online [Technical Library](#).

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## ASABE Journals—New Issues Posted

Recently posted to the [ASABE Online Technical Library](#) with links to the abstract, full-text, and citation:

- [Applied Engineering in Agriculture 37\(1\) table of contents](#) or visit this [journal's home page](#)
- [Transactions of the ASABE 64\(1\) table of contents](#) or visit this [journal's home page](#)
- [Journal of Agricultural Safety and Health 27\(1\) table of contents](#) or visit this [journal's](#)

[home page](#)

Visit our new web pages, try a referencing utility, or easily share an article.

- [Special Collections Organizer](#) assistance if you wish to initiate a collection
- [References Validator](#), find the DOI and validate your full references list
- [Share](#) a journal article with the new social media links on the abstract page
- [Call for papers](#) for special collections

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## Supplemental Information for Journal Articles via Figshare

The [ASABE archive for supplemental information](#) hosts additional files that are linked to journal articles. [Submitting your files](#) to our Figshare-hosted portal is easy. These files include spreadsheets, images, datasets, and many other types of data that support journal articles. Each dataset receives a unique DOI and a corresponding hyperlink.

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## March 4 Deadline for Consultants Guide

Advertise your consulting expertise in the ASABE Guide to Consultants. It's easy, and rates start at only \$95.

[Review the details](#) and email the order form with your business card and 50-word description of your services to [GuideToConsultants@asabe.org](mailto:GuideToConsultants@asabe.org). See what others are doing by viewing the [current guide](#). Deadline for submitting your listing is March 4.

The stand-alone print directory will be mailed with the May/June issue of *Resource* magazine. It will also be posted on the ASABE website for twelve months and distributed when ASABE headquarters receives queries regarding available consultants.

Looking for other marketing opportunities? See the full listing of [advertising options](#), which include this monthly e-newsletter, *Inside ASABE*. Email [advertising@asabe.org](mailto:advertising@asabe.org).

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## ITSC Technical Community Paper Awards

The Information Technology, Sensors & Control Systems (ITSC) technical community is

pleased to announce the ITSC Meeting Paper award for the 2021 ASABE Annual International Meeting to be held July 11-14, virtual and on demand.

To be considered for the award, by April 20, 2021, papers must:

- Be submitted to ASABE via the standard conference paper submission process detailed at [asabemeetings.org](http://asabemeetings.org).
- Be associated with an abstract that has been approved for presentation (any format) during an ITSC sponsored or cosponsored session at that year's AIM.
- Use the most current [annual meeting paper template](#).

Successful submission is ultimately the responsibility of the contact author. For questions, email [AIMpapers@asabe.org](mailto:AIMpapers@asabe.org).

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## Fountain Wars Returns!

Fountain Wars is back for 2021! Our virtual competition will be held during AIM, July 2021, Fountain Wars registration is due April 15.

Find complete details about this year's contest on the [Fountain Wars webpage](#).

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## Upload Your AIM 2021 Paper

Presenting at the ASABE 2021 Annual International Meeting? Be sure to use the 2021 [paper template](#) and read the FAQ for instructions. If your paper is not submitted by May 3 (midnight, eastern time), it will not be added to our Online Technical Library until after the meeting.

Email [AIMpapers@asabe.org](mailto:AIMpapers@asabe.org) with questions.

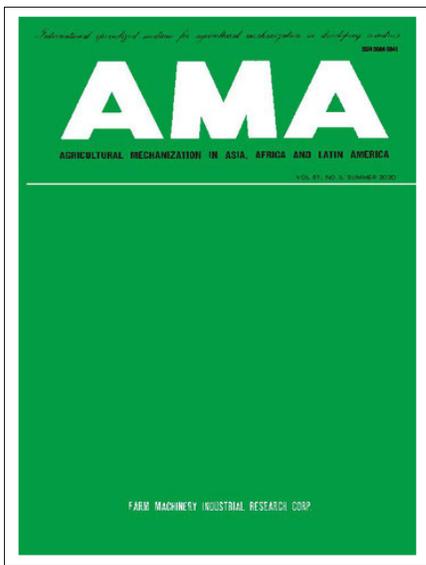
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## AMA Celebrates 50 Years

Congratulations to long-time member and ASABE Fellow Yoshisuke Kishida and to [Shin-Norinsha](#), the company founded in 1933 by his late father, Yoshikuni Kishida, on the 50th anniversary of the journal *AMA—Agricultural Mechanization in Asia, Africa and Latin America*. A special anniversary issue features more than 30 articles from experts around the world, centering on the United Nations Sustainable Development Goals.

Through *AMA* and other efforts, like the [Kishida International Award](#), "Yoshi" Kishida has



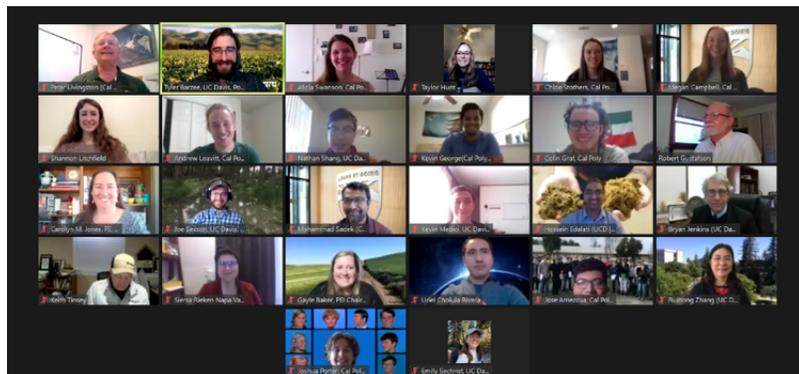
long demonstrated his unwavering commitment to advancing mechanization in the developing world.

We wish AMA continued success for many years to come!

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## Second Annual ASABE CA/NV Student Rally

What started as an ASABE initiative fund request is now a proven member event. On January 16 and 17 the California/Nevada section held their second annual student rally, in complete virtual fashion. The event was designed to provide an inspiring and enriching experience focused on growing students' professional networks, promoting professional practice, and demonstrating the many exciting career pathways in agricultural, biological, and food systems engineering.



The rally drew 60 registered participants, including more than 35 students from six different colleges and universities, including three more academic institutions that have not attended previously. The event included tours of farms and agricultural operations in California and across the country—with a virtual meeting, proximity isn't an obstacle! The



rally featured professional development sessions and a leadership panel comprised of members from the Society. Students learned about issues relating to agricultural mechanization, irrigation, food, renewable energy, water, biological materials, manure management, and more from practicing engineers.

Planning is already underway for the 2022 rally to be hosted by Cal Poly in-person in San Luis Obispo.

## Get Involved at AIM with Short Videos

YPC is offering two great opportunities to engage with fellow attendees during the 2021 Annual International Meeting using short, informative videos. The videos will be posted during the annual meeting and utilized on our ASABE social media pages. Participate in one of two categories:

### *"Five-Minute Production Tour"*

Are you interested in showing us production agriculture? The 2021 AIM's virtual format is perfect for a "Five-Minute Production Tour." Show us your involvement in production agriculture by giving a virtual tour of a farm, crop, or livestock production operation, or of an innovative system utilized on the farm.

### *"My Research Journey"*

We want to hear about your research experiences! YPC invites graduate students to submit a short video for "My Research Journey." Topics that should be covered in your video:

- Brief introduction – about you, your university, your major
- What made you choose agricultural/biological engineering as your career?
- What are you currently working on as a part of your research and what are the expected outcomes? (Include a short lab tour, if possible)
- How are you planning to contribute to your field in the coming years?

### **Dos and Don'ts for Participating**

#### *Do. . .*

Shoot *all* portions of your video in landscape orientation

Provide permission for ASABE to use and share your video, and obtain written permission from any other people who appear in your footage

Email your video by April 15, 2021, to [ypc@asabe.org](mailto:ypc@asabe.org)

#### *Don't. . .*

Use any copyrighted material (eg, music)

Actively promote any specific products or brands.

Show equipment being used in an unsafe manner (eg, ROPS or shielding removed)

Direct any questions to [Sasi Rajendran](#).

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## Scholarship Applications Due March 15

The deadline to apply for these ASABE scholarships is March 15. See each link for details on eligibility information and entry forms.

## **Undergraduate Students**

[William J. Adams, Jr. and Marijane E. Adams Scholarship](#) - \$2,000

[Undergraduate Students: ASABE Foundation Engineering Scholarship](#) - \$2,000

## **PhD Students**

[John C. NYE Graduate Fellowship](#) - \$2,000

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# **2021 Student Awards and Competitions Entry Dates**

ASABE hosts a variety of student competitions for a wide range of interests. Please see the link following each competition or award for eligibility details and entry forms. Visit the ASABE [Student Awards and Competitions](#) site for more details and entry instructions for each competition.

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### **March 15**

Boyd-Scott Graduate Research Award

### **April 15**

G.B. Gunlogson Environmental Fountain Wars Design Competition

### **April 20**

Student Honor Award

### **May 1**

ASABE Robotics Student Design Competition

### **May 15**

Ethics Essay Competition and Video Challenge

K.K. Barnes Student Paper Competition

AGCO National Student Design Competition

G.B. Gunlogson Environmental "Open" Design Competition

### **AIM Student Oral/Poster Presentation Competition**

All students who submitted an abstract to present at the 2021 Annual International Meeting will automatically be contacted to participate in this competition. Keep an eye on your email for more details!

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# **Standards Updates**

## **Proposed Projects**

- X24347:2019, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Dimensions of ball-type coupling device (80 mm)
- X248.4, Construction and Rating of Equipment for Drying Farm Crops

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## In Memoriam—Terry Siebenmorgen



Terry Siebenmorgen passed away November 22, 2020, after a long, courageous battle with cancer.

Siebenmorgen grew up on a dairy farm in Morrison Bluff, Ark. He earned his undergraduate degree from the University of Arkansas, an MS degree from Purdue, and a PhD from the University of Nebraska, all in agricultural engineering. He began his faculty career at the UA in 1984 as a food engineer, working in several areas of food processing. He soon focused extensively on rice processing in response to the strong need for research from the food industry. He founded the world-renowned Rice Processing Program in 1994. His rice processing program is an industry-interactive, multidisciplinary effort focusing on rice-processing operations and has sponsors from across the United States, South America, Europe and Japan. He built excellent relationships and trust with industry members to run this successful Rice Processing Program for more than 25 years.

Siebenmorgen was appointed to the Distinguished Professor rank in 2015 and was inducted into the Arkansas Agriculture Hall of Fame in 2019. He was also inducted as a Fellow in both the American Society of Agricultural Engineers and the American Association of Cereal Chemists International. Among his many industry honors were the Riceland Foods' Friend of the Farmer and the Distinguished Service Award from the Rice Technical Working Group, which he received twice. He was also presented the ASABE Distinguished Food Engineer Award, was twice selected for the Texas Instruments Outstanding Research Award, Spitze Land Grant University Faculty Award for Excellence, and John W. White Team Award at UA Division of Agriculture.

Siebenmorgen is survived by his wife, Patty, sons Justin and Ryan, and four grandchildren. A son, Matthew, preceded him in death.

He was a 37-year member of the Society and inducted as a fellow in 2005.

[Read full obituary.](#)

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