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## March 2021

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### From the Executive Director



You may recall that one of the [Society's goals](#) is to “Raise the prominence of the agricultural and biological engineering profession globally.” A significant national priority under this goal includes ASABE’s efforts toward transforming food and agriculture to circular systems. The transition to circular systems is the theme of the March/April 2021 issue of *Resource*, which has been inspiring

people all over the world to reflect on how to re-engineer our linear food and agricultural systems to achieve circularity. It’s exciting to see the growing number of impressive organizations citing *Resource* and ASABE’s work, such as the recent [Solutions from the Land](#) blog and their farmer-led publication [21<sup>st</sup> Century Agriculture Renaissance](#).



To help us capitalize on this interest, I have two requests of you. First, if you have not had a chance to review the March/April issue of [Resource](#), please do so. It will be well worth your time, and it will show you where your Society is heading. Second, please share the issue with someone you know or with an appropriate outlet that can further promote our profession. Here is possible language:

The American Society of Agricultural and Biological Engineers (ASABE) has published a special issue of *Resource* magazine on transforming food and agriculture to circular systems. Available as a [PDF](#) and as an [online version](#), this special issue is intended to inspire students, researchers, policy makers, and the public by helping them understand our current food and agricultural systems and envision the changes that can make these complex systems more productive, more efficient, and more sustainable. The goal is to stimulate thinking about transitioning from our current, mostly linear systems to circular systems that “design out waste and pollution, keep products and materials in use, and regenerate natural systems.” Circular production systems can help us achieve sustainability, increase productivity, protect natural resources, and ensure a safe and abundant food supply for our growing global population.

Thank you.

Darrin J. Drollinger  
Executive Director

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## Election Results Announced



Congratulations to the newly elected [officers of the Society](#). Voted to the Society Board are President-elect Keith G. Tinsey and Trustees Edward (Ed) M. Barnes, Ann D. Christy, and Laura M. Pepple. Joining the Nominating committee are Joel R. Peterson, Johnny M. Grace III, Fadi A. Fathallah, Catherine (Catie) E. Brewer, Ning Wang, Noel R. Menard, Tiffany L. Messer, Frederick Anthony Doss.

Terms of office begin after the close of the 2021 virtual AIM.

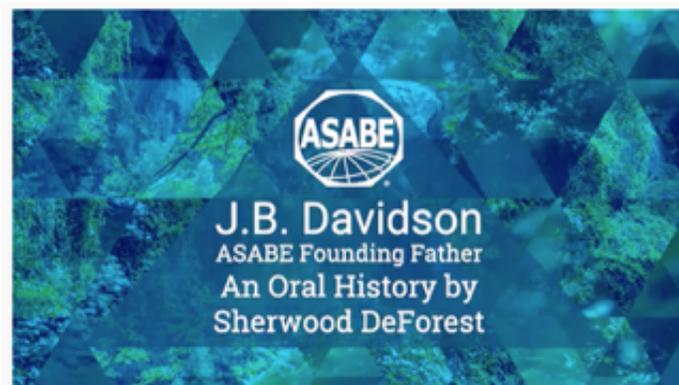
Also joining the 2021-2022 Board as a trustee, in an ex officio position as president-elect of CSBE, is Ying Chen.

A very hearty thanks to all voters and candidates alike for contributing to a successful election. The ballot response rate of 20.79% is a sign of active and engaged members and affirms the importance of the work of ASABE and of Society volunteers.

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## New Video Captures Personal Reflections on ASABE Founder



ASABE Past President Sherwood DeForest brings his reminiscences and research into a conversation with Executive Director Darrin Drollinger, in a video that highlights of the life of Jay Brownlee (J.B.) Davidson, founder of ASABE and widely regarded as the father of agricultural engineering.

It was as a student at Iowa State University that DeForest first became acquainted with Davidson, and he went on to author the Davidson biography, *The Vision that Cut Drudgery from Farming Forever*, which serves as the basis of the conversation.

The first in a series of ASABE oral histories, the 14-minute video can be viewed on ASABE's [YouTube channel](#).

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## AGCO, Haber, Purdue Win Davidson Prizes



ASABE and the Association of Equipment Manufacturers (AEM) presented the fourth annual Davidson Prize to three top AE50 winners on March 2, during the virtual special-edition of Commodity Classic.

Davidson Prizes were awarded to:

- Purdue University / LeafSpec, LLC for the LeafSpec a portable hyperspectral corn leaf imager
- Haber Technologies, Inc for the DRI-Stack a grain drying and aeration system
- AGCO Corporation for the 9350 DynaFlex® Draper Header with AutoDock™ a 50-foot flexible header with automatic system for attaching all mechanical, electrical and hydraulic connections of the header to the Fendt IDEAL combine

“These three products deliver on solutions that truly represent the spirit of J.B. Davidson and the innovative legacy of agriculture,” said Curt Blades, senior vice president of Agriculture for AEM. “I continue to be amazed about the advancement of ag engineering and the positive impacts it continues to have on farmers’ ability to work more efficiently.”

The Davidson Prize was designed to celebrate breakthrough innovations in areas of agricultural, food and biological systems engineering.

“ASABE and AEM came together to create a new award to celebrate innovation in agriculture and bring additional recognition to those who embody the spirit of J.B. Davidson,” said Darrin Drollinger, executive director at ASABE. “The products named as 2021 winners of the Davidson Prize continue to represent the diversity of agricultural engineering, as well as the variety of companies that bring advanced technology and exciting improvements to the marketplace.

“I believe J.B. Davidson would be amazed at how advanced farm equipment has become,” continued Drollinger.

[Full story](#)

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## #ASABE21 – Registration Open!

ASABE is pleased to present the 2021 Annual International Meeting, virtual and on-demand, and you won't want to miss it. Bookmark the [AIM website](#) to stay abreast of program announcements as they are made available.

All submitting authors have been notified of their abstract acceptance status. If you have not received notice yet, please email [Jessica Bell](#). Submission edits, paper uploads, poster uploads, and presenting author registrations are due by May 3!

Consider joining YPC and ISB in a fun and informative [video initiative](#). Entries are requested by April 15.

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## Fellow Nominations Deadline April 15

*"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 biological engineering."*

Here's a final reminder that nomination materials must be submitted by April 15 for selection of the 2022 Class of Fellows.

Instructions and eligibility requirements can be found on the [Fellows webpage](#).

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## Community Editor Positions Open

Nominations are being sought for three journal Community Editor positions on the P-511 Journal Editorial Board. Apply by April 30. See <https://www.asabe.org/CECFN> for description and how to apply.

- Education, Outreach, and Professional Development (EOPD)
- Ergonomics, Safety, and Health (ESH)
- Machinery Systems (MS)

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## "Member Hours" Offer New Networking Opportunity

Join us for "Member Hours" throughout April and May, a series of virtual get-togethers focusing on a unique topic. The series will provide the chance to advance your knowledge and network with like-minded members. Click the hyperlink in each title to learn more about each one. Registration is required.

[Member Hour: History of the Nebraska Tractor Test Lab](#)

Monday, April 5 - 12:00-1:00 pm CST

[Register](#)

[Member Hour: Leadership Insight](#)

Monday, April 19 - 12:00-1:00 pm CST

[Register](#)

[Member Hour: Present Day Nebraska Tractor Test Lab](#)

Monday, May 3 - 12:00-1:00 pm CST

[Register](#)

Contact [Jasper Cunningham](#) with questions.

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## Journal Submission Process Streamlined

As of March 8, the journal copyright form and author information are now embedded in the ScholarOne questions. For new manuscripts, that means there's no need to upload those two additional files.

Be sure to include all authors and affiliations in the ScholarOne system and make sure that your [ORCID](#) (if used) data is complete. That information is used to create the author listing on the accepted manuscript and to prevent authors from being requested to review their own work. Additionally, the format of the authors and affiliations listing along with the article notes have been changed in the published article.

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## AETC—You Can Still Access Recorded Content



Registration is still available for those that would like to obtain 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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## 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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## Journal Article Indexing

How can you be sure your ASABE article is reaching the widest-possible audience? Our journals are indexed for search engines by various discovery services. We also send our journal metadata to [CrossRef](#) and register a [DOI number](#) for each article, which makes the articles easy to find and cite. In addition to the indexers, others obtain our metadata directly from CrossRef, further expanding the exposure your article receives. Read more at [www.asabe.org/DiscoveryServices](https://www.asabe.org/DiscoveryServices).

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## ITSC Paper Award Entries Due April 20

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 12-16, virtual and on demand.

To be considered for the award, papers must be submitted to ASABE by April 20, via the standard conference paper submission process detailed at [asabemeetings.org](http://asabemeetings.org). In addition, papers:

- 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](#)
- Not have been previously published elsewhere

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

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## Get Published: Journal Article Tips

Avoid immediate rejection or delays by following these tips:

- In the reference list, ensure the author names are in the right format (last name, first-name initials).
- Verify that reference list is accurate using [DOI](#), where possible (copy references into free check references utility).
- Ensure the English is clear, correct, and consistent (for translation assistance, see [English-Language Editing](#)).
- Download the latest [journal manuscript template](#) (journal specific instructions) and check the latest [Guide for Authors](#) for best results.
- Highlights are required which provide an overview of your findings. See our [web page for authors](#) for more details. See [sample PDF](#).
- Citations in the text must match the references list at the end of the manuscript.

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## Soil Erosion Research Symposium: Plan Now for Puerto Rico



Who isn't looking forward to travel in 2022? And doesn't Puerto Rico in January sound attractive?

The 2022 Soil Erosion Research Symposium is less than one year away! Beautiful and warm Puerto Rico will host this symposium the week of January 9. The submission portal has been reopened for accepted authors to submit edits and paper uploads. All authors have been notified of their submission status. Those interested in submitting their paper to the Special Collection have a deadline of June 15, all other papers for proceedings only are due September 15.

Find all of the deadlines, the new paper template and examples, sponsorship opportunities, and more information about this specialty event [online](#).

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## Fountain Wars Returns! Register by April 15

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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## ORCID and Journals Manuscripts

The [ORCID](#) (Open Researcher and Contributor ID) can be used to easily pull in author information into ScholarOne. However, if the author has not kept their ORCID profile updated, outdated or incorrect information may result. Be sure that the author's ORCID data is complete and updated before using.

ORCID helps to uniquely identify an author and link author contributions together for easier recognition. It may also be used to login to some publishing systems such as ScholarOne.

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## QC Section Honors Newbery, Fredricks, Deere Team

The Quad City section of ASABE recently honored members for their technical and professional achievements. We join the section in extending congratulations to the following individuals.

**Steve Newbery, 2021 Member of the Year**



Steve Newbery is the ASABE Quad City Section's 2021 Member of the Year. Raised in Morgan County, Ill., Newbery began his career at the International Harvester East Moline Works, in 1978, later joining the John Deere Harvester Works, retiring in 2016 with more than 35 years of service. His career included design, quality, reliability, and manufacturing engineering, leading to his final position as global reliability manager for Deere combines from 2009 to 2016. Newbery has been an active member of ASABE since his student days and of the Quad City section since 1978, serving as section chair in 2004-05. He also served as the section's secretary and treasurer, five years as awards chair and six years as the section's ¼-Scale Tractor Design contest liaison when that contest was held in the Quad Cities. He also has served as chair of the ASABE T-14 Testing and Reliability committee. He has also been active in his church and the Bettendorf Lions Club.

### **Eric Fredricks, 2021 Young Member of the Year**



Eric Fredricks is the section's 2021 Young Member of the Year, in recognition of his enthusiasm, devotion to his profession, and contributions to the section. Fredricks graduated from the University of North Dakota at Grand Forks in 2011. He joined CNH Industrial in 2012 and has worked on mechanical integration of electronic and hydraulic options for corn headers and the design of a lightweight stalk roll assembly and stalk chopper functional components. Fredricks joined ASABE in 2018 and for two years has served as treasurer. He is also a member of the Sports Car Club of America where he is on the Board of Directors for the Great River Region and its Autocross Program Chair.

### **X9 Team, 2021 Outstanding Engineering Achievement Award**



The X9 team from the John Deere Global Harvesting Product Development Center is the recipient of the 2021 Outstanding Engineering Achievement Award for the development of the John Deere X9 Combine. The X9 combine comes in two models, the 1000 and larger 1100. The X9 1100 can harvest up to 30 acres of high yielding wheat per hour and up to 7,200 bu/h high yielding corn. Unloading rates vary from 4.6 bu/s for the 1000 to 5.3/s for the 1100. The grain tank of the 1000 holds up to 420 bu with 460 on the 1100. A new 630- to 690-HP, 13.6-L engine combined with an updated transmission and belt drive system results in up to 20% less fuel used

per bushel harvested. The X9 combines feature a 23% wider feeder house, dual separators, and a larger cleaning shoe. The X9 received a 2021 ASABE AE50 award.

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## **Student Honor Awards Entries Due April 20**

Each student engineering branch and student mechanization branch may elect one student branch

member to receive the [Student Honor Award](#). This award recognizes scholarship, activity in student branch affairs, extracurricular and national student activities and the importance of maintaining the good will and respect of associates. Score sheet and winning student names must be received at ASABE headquarters by April 20.

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## Get Involved at AIM with Short Videos

Here's a last call to participate in YPC's video project planned for the 2021 Annual International Meeting. The videos will be posted during the annual meeting and utilized on our ASABE social media pages. Entries are requested by April 15. Read on for full details.

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### *"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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# 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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## **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**

- X615.2, Cotton Module Cover Material Performance

## **Revisions**

- ANSI/ASABE AD4254-6:2020 MAR2021, Agricultural machinery—Safety—Part 6: Sprayers and liquid fertilizer distributors
- ANSI/ASABE EP585.1 MAR2021, Animal Mortality Composting

## **Press Releases**

- March 1, 2021, Cylindrical Cotton Module Use to be Added to ASABE Performance Standard
- March 18, 2021, ASABE Adopts Updated ISO Standard for Agricultural Sprayers and Fertilizer Distributors

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