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## June 2021

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### From the Executive Director



Be sure to read the intriguing cover story in the just-released July/August issue of *Resource* magazine, titled “Derecho Emphasizes Engineers’ Role in Agricultural Structural Design.” President Engler and her co-authors do an excellent job of describing why last year’s derecho was so devastating, and they make a compelling argument for engaging engineers and engineering

standards when designing and building agricultural structures. A couple of sentences from the article especially resonate, given the recent building collapse in Miami, “Most of all, engineering can prevent catastrophic failure. No design can be guaranteed not to fail, but engineering minimizes the risk of failure and is always a good investment.” We don’t yet know all the details about the tragedy in Miami, but we know that it should not have happened.

If you’re still on the fence about taking part in the virtual 2021 annual international meeting (AIM), then you should check out this year’s special sessions on Transforming Food and Agriculture to Circular Systems (TFACS). To get a feel for all the TFACS programming, start with the [promotional video](#) and then [check out the events](#). In addition, we’re releasing a beta version of an orientation tool to help you navigate all the exciting opportunities that the AIM offers. Watch for this tool to be available soon. [AIM registration](#) is quick and easy, and this year undergraduate students can attend for free. I look forward to seeing you soon at the 2021 AIM!

Darrin J. Drollinger  
Executive Director

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## [#ASABE21](#) — Registration Ongoing!

**Register by July 1 for early access to the virtual platform**

Find out what AIM has to offer at the meeting website, [www.asabemeetings.org](http://www.asabemeetings.org). Program details, technical session schedules, the registration link, and information for authors can all be found here.

The Career Fair is always a popular option for those looking for job openings. Employers interested in posting positions can [sign up online](#) before June 27, registration required. Anyone interested in participating as a potential employee just needs to register! All events and sessions are included with your full registration unless noted otherwise.

The AIM virtual platform will be available early for those that are registered by July 1. Watch your email for a link with information on how to log into the site. Accessing the on-demand recordings and live technical sessions, CPDs, committee meetings, socials, and more will all be available through the “View Details” button on the *Schedule* page.

Find all of the poster PDFs on the *Posters* page, then be sure to set aside some time during the poster sessions for live chat opportunities with the authors. For at-a-glance scheduling information, you will be able to find all events listed chronologically on the *Program Overview* page. There is even a page dedicated to YPC and ISB! Don't forget to create your profile so that you can use the Chat function to connect with friends and acquaintances, individually or in groups, by text chat or video chat. Finally, do be sure to stop by the *Exhibitors* page and see what new products, ideas, and technology are being offered from our fantastic 2021 ASABE AIM supporters!

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## 2022 Ballot: Submit Nominees by July 1

With this year's elections behind us, and new officers prepared to take their positions in July, at the end of the annual international meeting, it is time to look ahead to the 2022 leadership ballot. Nominees are being sought for president-elect and three trustee positions. Nominating committee positions will also be filled for a rotation of technical communities and districts, including EOPD, ESH, PAFS, International, District 1, District 3, and District 5.

Members of the Nominating committee have the serious but rewarding task of securing candidates for the Society's annual election of officers, which include the president-elect, board trustees, and members of the Nominating committee itself. The slate they prepare is then presented in January for ballot by the general ("corporate") membership. The committee comprises representatives from each of the Society's technical and geographic units, as well as the international membership, who currently serve on staggered two-year terms.

Those wishing to put forth nominations are encouraged to submit names and supporting materials to the Nominating committee by July 1. Current committee members are as follows, with the group each represents shown in parentheses: [Maury Salz](#) (chair), [Lisa Wilken](#) (ASE), [Amy Kaleita](#) (EOPD), [Steve Taylor](#) (ES), [Dee Jepsen](#) (ESH), [Paul Weckler](#) (ITSC), [Joe Luck](#) (MS), [Sherry Hunt](#) (NRES), [Morgan Hayes](#) (PAFS), [Deepak Keshwani](#) (PRS), [Sreekala Bajwa](#) (International), [Lara Beal Moody](#) (District 1), [Jeremiah Davis](#) (District 2), [Elizabeth Miller](#) (District 3), [Carolyn M. Jones](#) (District 4), [Nahar Nurun](#) (District 5).

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## Modernizing African Agrifood Systems: Learn More at Special AIM Program



**AMAA**  
Alliance for Modernizing  
African Agrifood Systems  
AN ASABE GLOBAL INITIATIVE

ASABE invites you to learn more about an exciting new initiative that the Society is leading: The Alliance for Modernizing African-Agrifood Systems. Organized by a subcommittee of E-2050, Global Engagement committee, AMAA will promote the modernization of African agrifood value chains to strengthen food security, drive economic growth, and improve quality of life.

The initiative has four pillars:

- I. Promote technology and methodology development, assessment, and deployment appropriate for African agrifood systems
- II. Enhance entrepreneurship and business development
- III. Enhance building workforce development
- IV. Support the development of infrastructure and policy framework

Join AMAA at the 2021 annual meeting for two days of special programming that will take a deep dive into the challenges and opportunities associated with modernizing African agriculture. Hear from thought leaders and contribute to the strategic plan. Help us identify stakeholders and funding opportunities. Engage partners and take steps to implement the AMAA initiative.



Watch the [video introduction](#) to the special AMAA programming at #ASABE21

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## Member Hour: Get Ready for AIM with this Informal Orientation Session

June 28, 2021, 1:00-2:00 pm (eastern)

Join us for the last of this month's Member Hours and acquaint yourself with the AIM meeting platform and program.

The Society's flagship event, the annual international meeting, takes place virtually this year, July 12-16. At the next Member Hour we'll see programming highlights and get a sneak peek at the format and virtual tool we'll be using for this event. Bonus: It's a great way to spend some time and get acquainted with other attendees.

[Register](#)

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## Editors, Reviewers Recognized for Outstanding Contributions for 2021

**Outstanding Reviewers**

The high quality of ASABE'S peer-reviewed journals could not be maintained without reviewers willing to spend hours evaluating author manuscripts and making suggestions for improvements. The reviewer recognition program developed by P-511, Journal Editorial Board, honors a number of outstanding reviewers each year. For the 2020 publication year, more than 900 reviewers participated in the review process. During the year, associate editors ranked reviewer timeliness and review quality. Each technical community then selects an allotted number of reviewers based on the number of articles published.

Kingsly Ambrose  
Jnana Bairy  
Bent S. Bennedsen  
Jane A.S. Bonds  
Ying Chen  
Steven R. Evett  
Shuang Fu  
Serap Gorucu  
Dennis W. Hallema  
Mark Healy  
Carol L. Jones  
Suzanne M. Leonard  
Mengxing Li  
Jude Liu  
John M. Long  
Thomas Marek  
Wesley M. Porter  
Sindhuja Sankaran  
Simerjeet S. Virk  
Earl Vories  
Alvin Ray Womac

### **Outstanding Associate Editors**

Associate editors spend hours working closely with reviewers, authors, and editors during the peer review process for each manuscript. The associate editor recognition program developed by P-511 Journal Editorial Board honors outstanding associate editors each year. Editors of individual technical communities first identify nominees from more than 140 associate editors, selecting on the basis of workload, timeliness, and review quality over the previous three years. The selection committee then applies the same criteria plus the editor's justifications for each nominee to make the final selection of the award recipients. ASABE extends its gratitude to each of our 140-plus editors, and we offer a virtual round of applause to the following individuals, who were selected for Outstanding Associate Reviewer recognition.

Kingsly Ambrose  
Christopher Choi  
Robert Grisso  
Jianhan Lin  
Debasmita Misra  
Prem Parajuli  
Anita Thompson  
Binxin Wu  
Heping Zhu

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## 2021 ASABE Standards Collection Now Available



The 2021 collection of ASABE Standards is now available on CD and flash card. Each contain 283 current ASAE/ASABE Standards, Engineering Practices, and Data applicable to agricultural equipment and systems, irrigation and drainage, structures, turf and landscape equipment, food engineering, and electric power applications.

The CD and flash card include 61 adoptions of international standards, seventeen of which were not based on ASABE

documents. They do not include historic standards, withdrawn standards, or earlier versions of current standards. Both media include a keyword and numerical standards index and a list of active standards development projects. A limited number of searchable CDs and flash cards are available.

The CD (order number CD2021) and flash card (order number FC2021) are available for \$495 to members and \$695 to non-members.

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## Journals Name Award Winners for 2021

The articles published by ASABE in its peer-reviewed journals during 2020 are eligible for 2021 Superior Paper awards. Each technical community selects up to 5% of the papers published by their community for paper awards based on the articles timeliness, fundamental value, originality, and benefits to society, as well as for the quality of writing. Award winners are honored during the annual international meeting.

### **Ergonomics, Safety, and Health**

"Body Orientation and Points of Contact during Laboratory-Based Machinery Egress: Investigating Adherence to Safety Guidelines," D. Kingston, B. Bashiri, A. Omoniyi, C. Trask

### **Information Technology, Sensors, and Control Systems**

"A Portable Biosensing Device with Magnetic Separation and Quantum Dot Bead Labeling for Simple, Rapid, and Quantitative Detection of Salmonella Typhimurium," X. Xi, R. Wang, P. Yao, L. Yao, S. Tung, Y. Li

"Evaluation of Two Recurrent Neural Network Methods for Prediction of Irrigation Rate and Timing," A. F. Jimenez, B. V. Ortiz, L. Bondesan, G. Morata, D. Damianidis

### **Machinery Systems**

"Quantifying Spray Deposition from a UAV Configured for Spot Spray Applications to Individual Plants," B. Richardson, C. Rolando, M. Kimberley

"Development of Prediction Model for Axle Torque of Agricultural Tractors," W. S. Kim, Y. S. Kim, Y. J. Kim

"Hardware and Software Design for Premixing In-Line Injection System Attached to Variable-Rate Orchard Sprayer," Z. Zhang, H. Zhu, C. Hu

### **Natural Resources and Environmental Systems**

"Impact of Riparian and Stream Restoration on Denitrification in Geomorphic Features of Agricultural Streams," M. K. Welsh, S. K. McMillan, P. G. Vidon

"Assessing the Climate Change Impacts on Grain Sorghum Yield and Irrigation Water Use under Full and Deficit Irrigation Strategies," K. Kothari, S. Ale, J. P. Bordovsky, C. L. Munster

"Potential Suitability of Subirrigation for Field Crops in the U.S. Midwest, F. Yu, J.

Frankenberger, J. Ackerson, B. Reinhart

"Evaluation of Cotton Establishment Strategies Using Subsurface Drip Irrigation (SDI) in the Southern High Plains of Texas," J. P. Bordovsky, J. T. Mustian

"Innovative Extension Methods in the U.S. to Promote Irrigation Water Management," D. R.

Rudnick, M. Stockton, S. Taghvaeian, J. Warren, M. D. Dukes, A. Kremen, C. G. Henry, J.

Aguilar, B. Ortiz, A. Andales, C. A. Burr, X. Qiao, W. Liang, S. Walthour, S. H. Amosson

### **Plant, Animal, and Facility Systems**

"Effects of Elevated Platform and Robotic Vehicle on Broiler Production, Welfare, and Housing Environment," X. Yang, X. Huo, G. Li, J. L. Purswell, G. T. Tabler, G. D. Chesser, C. L. Magee, Y. Zhao

### **Processing Systems**

"Deterrence of *Aspergillus Flavus* Regrowth and Aflatoxin Accumulation on Shelled Corn Using Infrared Heat Treatments," D. L. Smith, G. G. Atungulu, S. Wilson, Z. M. Shad

"Characterization of Zein Extracted from Wet Distillers Grains," L. Guardiola-Ponce, A. Sudkamp, L. Yin, G. Padua

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## **July/August Resource is Now Available Online**





The July/August issue of *Resource* reflects the diversity of the ag and bio engineering profession as well the diversity of our members.

Feature articles include an argument for the importance of engineering in structural design based on last year's storm damage in Iowa, an introduction to RFID tagging in the production of breeding sows, and a call for indigenizing ASABE by bringing awareness of Indigenous values to our classrooms and to our work. The 2021 Davidson Prize winners and ASABE's Annual Report round out the issue.

[Read the July/August issue](#)

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## ITSC Community Paper Award Winners for 2021

The Information Technology, Sensors, and Controls Technical Community Meeting Paper award competition was established in 1999 to encourage high quality conference papers. The judges select the top papers from the ITSC papers to be presented at ASABE's annual meeting.

For the 2021 AIM, the following papers and their authors were selected and honored for recognition.

"Comparison of Deep Learning Models for Corn Disease Identification, Tracking, and Severity Estimation Using Images Acquired from UAV-Mounted and Handheld Sensors," Aanis Ahmad, Dharmendra Saraswat, Aly Gamal, Gurmukh Johal

"Anchor-free Deep Convolutional Neural Network for Plant and Plant Organ Detection and Counting," Chenjiao Tan, Changying Li, Dongjian He

"Tree-based Deep Convolutional Neural Network for Hierarchical Identification of Low-resolution Insect Images," Dan Jeric Arcega Rustia, Ya-Fang Wu, Pei-Yu Shih, Sheng-Kuan Chen, Jui-Yung Chung, Ta-Te Lin

"Deep Learning-based Saliency Maps for the Quantification of Grape Powdery Mildew at the Microscopic Level," Tian Qiu, Anna Underhill, Surya Sapkota, Lance Cadle-Davidson, Yu Jiang

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## Changes Announced for Journal Page Charges

The ASABE Journal Editorial Board is implementing a new pricing structure for article processing charges. Under the new structure, members will receive the first three pages at

no charge, pages four to seven are \$100 each, and pages eight and over are \$200 each. For nonmembers, only the first page has no charge. The *Journal of Agricultural Safety and Health* charges follow the same structure, but at half the per-page charge due to its smaller page size. See more details at <https://www.asabe.org/APC>.

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## ***Transactions Gets a New Name: Journal of the ASABE***

Beginning in 2022 our peer-reviewed journal *Transactions of the ASABE* will be renamed to *Journal of the ASABE*. The Journal Editorial Board considered a number of alternatives and made the selection with the goal of providing a clear reflection of the journal's peer-reviewed content. The new name eliminates any confusion created by the word *transactions*, which some interpret as meaning conference proceedings. This change maintains the uniqueness of our Society's primary journal in publishing peer-reviewed engineering and scientific articles of importance to the broad field of agricultural and biological engineering.

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## **New Journal Issues Posted**

Recently posted to the ASABE Online Technical Library with links to the abstract, full-text, and citation:

- Applied Engineering in Agriculture 37(3)  
[Table of contents](#) or visit this journal's [home page](#)
- Transactions of the ASABE 64(3)  
[Table of contents](#) or visit this journal's [home page](#)

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## **Visual Challenge: Capture Images of the Profession, Publish in *Resource***



What do you see? We want to see it, too! Submit your agricultural and biological engineering images to VisualChallenge 11. Here's your chance to convey and celebrate the beauty of your work, your research, or your technical community. It's up to you and your camera, so be creative!

Submit as many entries as you want. All entries should be original work, and the image resolution must be 300 dpi or greater. Send your entries

by November 1, 2021, as attachments, to *Resource* editor [Melissa Miller](#). Write *VisualChallenge 11* in the subject line, and include a title and brief description for each image. If necessary, include a name for crediting the image and written assurance that permission has been granted to submit and possibly publish the image. The best images will be selected by ASABE staff and published in the January/February 2022 issue of *Resource*.

Good luck! Have fun! We'd love to see what you do! To see the winning entries from previous Visual Challenges, visit [www.asabe.org/VisualChallenge](http://www.asabe.org/VisualChallenge).

*Previous VisualChallenge entry (above) courtesy of ASABE member Paul Funk.*

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## Journal Special Collection: Circular Food and Agricultural Systems

Submit manuscripts for an ASABE special collection on circular food and agricultural systems by September 30. Works will be presented that envision, redesign and/or develop pathways for transitioning current FAS systems into circular economy systems that:

- Design out waste
- Keep products and materials in use
- Regenerate natural systems
- Provide economic benefits
- Are more resilient and in harmony with Earth's ecosystems

For questions, contact Kati Migliaccio, Guest Editor and Coordinator or Garey Fox, Editor-in-Chief. See our journal [web page](#) for more information.

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## ASABE Textbook Survey

We need your input to identify a priority list of textbooks in need of revision or creation. Please offer feedback using this [Google forms survey](#).

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## Use These Tips for Getting Your Manuscript Published

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, which provide an overview of your findings, are required.
- Highlights are required that 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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## 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](http://www.asabe.org/DiscoveryServices).

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