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August 2021

In This Month's Issue:

- [From the Executive Director](#)
- [Highlights of Recent Board of Trustees Meetings](#)
- [AE50 Nominations Open](#)
- [ASABE Leaders Featured in Upcoming NAE Forum on Circular Systems](#)
- [Circular Food and Agricultural Systems: Manuscripts Due September 30](#)
- [Student Members Earn Awards, Scholarships](#)
- [Volunteers Honored with Presidential Citations](#)
- [Soil Erosion Symposium Registration Now Open](#)
- [New Irrigation Textbook Captures 30 Years of Teaching Excellence](#)
- [Expanding Journal Review Opportunities to Grad Students, Postdocs](#)
- [Visual Challenge Capture Images of the Profession, Publish in Resource](#)
- [Job Postings Get a 2-for-1](#)
- [Associate Editor Workshop Focus on Best Practices](#)
- [Discount for Publishing Your AIM21 Paper with ASABE](#)
- [Greer Takes on New Role with ASABE Publications](#)
- [ORCID and Journal Manuscripts](#)
- [2022 ASABE Award Nominations](#)
- [New Issue of Transactions Posted](#)
- [Recent Standards Activities](#)

From the Executive Director



ASABE has been ramping up its efforts toward Transforming Food and Agriculture to Circular Systems (TFACS). We have accomplished a lot so far, and it's just the start. If you missed the [March/April issue](#) of *Resource* magazine dedicated to the subject, start there for a TFACS overview. Next, watch the excellent [TFACS opening keynote sessions and mini-symposium segments](#) from this year's AIM, which are available on the ASABE website.

Over the past 160 years, the U.S. National Academies of Sciences, Engineering, and Medicine (NASEM) has gained a reputation for providing objective assessments and recommendations from thought leaders and visionaries across a broad spectrum of disciplines, industries, and agencies. NASEM is now working to develop a national consensus on how the U.S. and the world can transition from our current linear production systems to circular systems. An important event in this effort will be the free virtual forum on September 9, titled [Complex Food and Agricultural Systems: Engineering for Sustainability and Resilience](#). ASABE is sponsoring this event, and I encourage your participation as the national consensus on TFACS grows.

To further advance our TFACS initiative, ASABE is engaging the expert services of consultant Nick Goesser. In addition to his passion for circular production systems, Nick has many connections with producer groups. Nick most recently served as CEO for the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America. Previously, he served as vice president for the National Corn Growers Association and for the U.S. Farmers and Ranchers Alliance, focusing on agricultural productivity, water quality, soil health, climate change, and broader agricultural sustainability. Nick was also the first director of the Soil Health Partnership, a technology development representative with Monsanto, and an agronomic research manager for a commercial farming operation.

Finally, there is still time to submit a manuscript for inclusion in the [TFACS special collection in *Transactions of the ASABE*](#). The deadline is September 30. Thanks to Kati Migliaccio and Garey Fox for coordinating this special collection! And in case you haven't heard, the Society's premier peer-reviewed journal, *Transactions of the ASABE*, will be renamed *Journal of the ASABE* beginning in 2022. This updated title reflects our ongoing promotion of our mission to the research community.

Darrin J. Drollinger
Executive Director

[Back to top](#)

ASABE Annual International Meetings

2022 AIM-See You in Houston!

The Call for Sessions is ongoing—connect with your [community program chair](#) if you'd like to submit a session for consideration.

The Call for Abstracts will open in October.

2021 AIM - Now On Demand

The 2021 Annual International Meeting may be over, but you can still [access all of the recorded content](#) through the rest of the year!

And if you missed out on the live sessions, registration continues to remain open so that you can access all of the sessions on demand.

Thank you to all our sponsors, session organizers, and moderators that worked so hard to put together an outstanding meeting!

ASABE Events at a Glance

December 6-10, 2021

[6th Decennial National Irrigation Symposium](#)

San Diego, California

January 9-14, 2022

[Soil Erosion Research under a Changing Climate](#)

Aguadilla, Puerto Rico

February 14-16, 2022

[Agricultural Equipment Technology Conference](#)

Louisville, Kentucky

May 16-19, 2022

[Sustainable Energy for Sustainable Future](#)

San Jose, Costa Rica

July 17-20, 2022

[Annual International Meeting](#)

Houston, Texas

[Complete list of ASABE Events](#)

Highlights of Recent Board of Trustees Meetings

The Board of Trustees held its annual summer meetings last month, and here are some of the key developments.

The Board approved moving forward procedurally to modify the Constitution to allow student members full corporate membership. This change would grant student members the right to vote in Society-wide elections. A petition containing 50 member signatures was presented at the Annual Business Meeting, allowing the proposed Constitution amendments to be presented for member approval on the 2022 leadership ballot.

The financial report confirmed the Society remains in a stable position financially, with a very healthy restricted reserve. The Board continued the discussion from our April meeting regarding how to wisely spend a portion of the restricted reserve returns, investing in the future growth and success of the Society. With that in mind the Board approved the following:

- An [AETC](#) California meeting location Initiative Fund preproposal, for up to \$30,000 in the event of conference cost overages.
- An Initiative Fund project for creating a new bioprocess engineering competition, “The ASABE Shark Tank,” for a total of \$11,000 over three years.
- Support for a new special award, “Outstanding Use of Circular Economy Principles,” for 2022 [Future City](#) regional and finals competitions at the \$30,000 level.
- Funding IT integration with the ASABE membership sign-up form, for \$20,000.
- Authorizing \$5,000 to move the accounting process used by ASABE Headquarters to a cloud-based system.
- Offering a one-year, post-pandemic “Welcome Back” free membership for undergraduate students.
- A development plan, presented by consultant Nick Goesser, for the Society’s initiative Transforming Food and Agriculture to Circular Systems, for up to \$153,000, pending attainment of milestones.

Additional projects elicited recommendations that proposals be strengthened and resubmitted to the Board for consideration at our November meeting.

E-03 Inclusion, Diversity, Equity, and Access (IDEA) committee is working to update the ASABE Policy Statement on Diversity.

E-2050/AMAA Alliance for Modernizing African Agrifood Systems committee has been officially formed. E-2050 Global Engagement approved the group’s bylaws. There were more than 250 participants at the four AMAA sessions held over the course of this year’s AIM.

Council Reports

- Meetings Council: Incoming council Chair Deepak Keshwani reported that goals for the coming year include increasing intentionality of AIM local planning efforts, creating a balance between virtual and in-person meetings for a hybrid AIM, and reimagining how CPDs for AIM are created.
- Membership: M-102 Awards Coordinating committee will be balloting a change to bylaws to include IDEA tenets. The Young Professionals and E-2050 Global Engagement groups are collaborating to produce a webinar series and an article for *Resource*. The council is forming a task force to better understand local groups, what resources can be provided, and how to revamp sections.
- Publications: Editor in Chief Garey Fox noted the new two-year impact factors for ASABE’s flagship journals, *Transactions* and *Applied*, have been released and show a small increase. Other metrics point to great growth for the journals. Publications Council Chair Kasiviswanathan “Muthu” Muthukumarappan shared that future work

will focus on more teaching and educational materials.

- Standards: The council was very pleased with the AIM meeting platform. Smart farming is an emerging topic for standards. Work continues on ASABE's efforts to become a standards developing organization in Canada.

Lalit Verma, recently re-elected as ASABE Foundation president, reported that currently there is about \$260,000 available from surplus 2020 earnings to be used, guided by the strategic needs of the ASABE Board.

[Back to top](#)

AE50 Nominations Open



Has your company produced new, innovative technology this year? Your product could be eligible for an AE50 product award!

The nomination deadline is quickly approaching! Please submit your nominations by September 25.

For more details, eligibility requirements, and nomination instructions, please visit www.asabe.org/AE50.

[Back to top](#)

ASABE Leaders Featured in Upcoming NAE Forum on Circular Systems



NATIONAL ACADEMY OF ENGINEERING

ASABE Fellows James Jones, Sue Nokes, R. Paul Singh, and Brahm Verma are among the presenters and moderators for the [Virtual Forum on Complex Food and Agricultural Systems: Engineering for Sustainability and Resilience](#), hosted September 9 by the National Academy of Engineering.

This forum will review characteristics and challenges of existing systems and the need for various engineering disciplines to converge to lead the transformation of current mostly linear food and agriculture into circular and resilient systems. The forum will also explore needed progress and investment in education, R&D, modeling and analytics, public-private collaboration, and other dimensions.

The forum will take place September 9, from 11 am to 4 pm (eastern time). Registration is free.

ASABE is proud to be a major sponsor for this event.

[Register](#)

[Back to top](#)

Circular Food and Agricultural Systems: Manuscripts Due September 30

Manuscripts are due by September 30 for “Circular Food and Agricultural Systems,” an ASABE Journals special collection. Works will be presented that envision, redesign, or develop pathways for transitioning current food and agriculture 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.

Our other [special collections](#) include the most recently published [irrigation symposium](#) and recently published “[Agricultural Conservation Practice Effectiveness](#).”

[Back to top](#)

Student Members Earn Awards, Scholarships

Congratulations to these teams and individuals for outstanding achievements in ASABE student competitions.

Boyd-Scott Graduate Research Award

PhD Category

1st Place: Guoming Li, Mississippi State University

2nd Place: Tasmin Hossain, North Carolina State University

3rd Place: Nitesh Kasera, North Carolina State University

MS Category

1st Place: Kushal KC, Ohio State University

2nd Place: Jacqueline Welles, North Carolina State University

3rd Place: Suman Budhathoki, Auburn University

K. K. Barnes Student Paper Award Winners

1st Place: Juan Daniel Cornu Sanchez, University of Florida

2nd Place: Jamie Weikel, Penn State University

3rd Place: Elizabeth Beyers, North Carolina State University

AGCO National Student Design Competition Winners

1st Place: University of Tennessee-Knoxville, "Graduate Rotary Adjustment for Sloped Surface (G.R.A.S.S.)," Margie Peeler, Jim Roebuck, and Lewis Webber

2nd Place: University of Wisconsin-Madison, "Portable Hemp Decorticator," Kylie Callahan, Jacob Olivares, and Priyanka Patel

3rd Place: University of Tennessee-Knoxville, "Solid-State Microwave Control and Data Collection System," Benjamin Cruz and Colby Gillmann

Robotics Student Design Competition

Advanced Division

Best Overall: Overwhelming Handler, Zhejiang University, Xuefan Wang, Fanghao Wang, Yi Tao, Yufan Zhou, Xin Yang, and Yutao Shen

Best Written Report: UF ABE Robotics, University of Florida, Bryce Askey, Xue Zhou, Congliang Zhou, Robert Herring, Ruoyao Qin, Chi Zhang, and Songzi Wu

Best Electronic Presentation: Robot Never Give Up, Zhejiang University, Hui Zheng, Fang Lang, Qina Yang, and Xin Jiang

Standard Division

Best Overall: Plant Patrol, Zhejiang University, Xin Yang, Xuefan Wang, Fan Wu, Yufan Zhou, Fanghao Wang, and Yi Zhou

Best Written Report: Future Legion, Zhejiang University, Fang Lang, Hui Zheng, Qina Yang, and Xin Jiang

Best Electronic Presentation: Qizhen Lakers, Zhejiang University, Yiyuan Lin, Yuliang Zhou, Daoyuan Jin, Yilin Zhang, and Xinyue Sun

G. B. Gunlogson Environmental Student Design Open Competition

1st Place: Virginia Tech University, "Breaking Waves at Claytor Lake," Layla Almualem, Carly Jaxheimer, Jessica Jones, Brian Nguyen, Emily Schiesl, and Morgan Widdifield

2nd Place: University of Arkansas, "Design of a Photovoltaic Power System to Pump Surface Water to an Irrigation Reservoir," Olivia Liedel, Courtney Austin, Christian Hitt, and Tatiana Castillo

3rd Place: University of Arkansas, "Campbell Hollow Aquatic Organism Passage," Alexie Pope, Jesse Morrison, and Clay Schuler

Fountain Wars Competition

1st Place and Most Innovative Design: North Carolina State University (Joseph Ishak, Sissy Clay, Joseph Hanks, Kevin Essig, and Emory New)

2nd Place and Best Use of Electronics: University of Nebraska-Lincoln (Garret Williams, Jon Cronk, Trent Lind, Abigail Haworth, Kyle Sheehy, and Mike Lembree)

3rd Place Oklahoma State University (Anthony Corpuz, Noeli Medina, Reece Townsend, Nathan Ong, Kyle McCullough, Gage Pielsticker)

Ag & Bio Ethics Essay Competition

1st Place: Vashti Campbell, North Carolina State University

2nd Place: Grace Phung, Auburn University

3rd Place: Ryan Ackett, North Carolina State University

ASABE Ethics Video Challenge

1st Place: "Towards Dream," North Carolina State University: Suraiya Akter and Nitesh Kasera

ASABE Scholarship William J. Adams, Jr., and Marijane E. Adams Scholarship

Cole Schlup, Iowa State University

ASABE Foundation Engineering Scholarship

LaDarrius Yates, Mississippi State University

John C. Nye Graduate Fellowship

Vashti Campbell, North Carolina State University

Student Honors Award Winners Engineering Branches

Carly Graves, North Carolina State University

[Back to top](#)

Volunteers Honored with Presidential Citations

Recognition of members of extraordinary service and invaluable contributions to the Society. Our accomplishments are a direct result of individual and team efforts. We extend our deep appreciation and congratulations to the following individuals, who were honored during the 2021 annual meeting with Presidential Citations.

Janie Moore

In recognition of her outstanding leadership and service in the formation of the ASABE BIPOC group (Black, Indigenous, and People of Color), which has the goal of providing networking, mentoring, and professional development opportunities for people with shared cultural experiences in agricultural and biological based engineering and technology fields.

Gayle Baker

For her exceptional leadership and energy resulting in the Young Professionals Community (YPC) hosting numerous events focused on member engagement in spite of the challenging year.

Mark Dilts

For his creative and spirited leadership transitioning the 2021 Agricultural Equipment Technology Conference (AETC) to a memorable and successful virtual conference.

Freddie Lamm

For serving as the publications chair and contributing author to the [National Irrigation Symposium](#) papers, which resulted in the largest special collection of ASABE journal articles ever published.

[Back to top](#)

Soil Erosion Symposium Registration Now Open



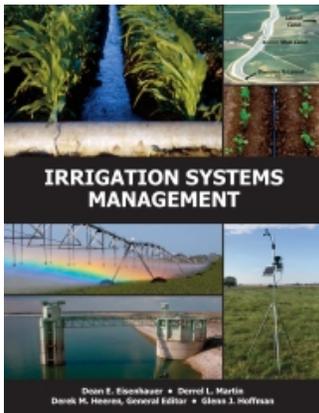
Registration is open for the [Soil Erosion Research Symposium](#) in Puerto Rico, January 2022. The host hotel for the event is the Punta Borinquen Resort in Aguadilla, with accommodations offered at the neighboring Marriott as well.

Visit the website to find out more details and watch for program information to be posted there as well.

September 15 is the deadline for paper submission of accepted abstracts. Log into the abstract portal to find the template and to upload your .doc or .docx file before the deadline. By October 1, the presenting author needs to be registered for the Symposium to confirm the presentation in the program.

[Back to top](#)

New Irrigation Textbook Captures 30 Years of Teaching Excellence



[Irrigation Systems Management](#) is an open-access textbook designed for upper-level undergraduate students and graduate students who are pursuing degrees in agricultural or natural resource sciences. The emphasis of this book is on the management of irrigation systems that are used for agricultural crop production. The book is the culmination of course notes that have been in development and use for nearly 30 years at multiple land-grant universities.

We hope the book will match the needs of students who plan to work in irrigation and related industries, university extension and outreach, private consulting, government service, or production agriculture and that it will continue to serve as a useful reference to them following completion of their formal education.

Development of this resource was supported by the ASABE Foundation's [Harold Pinches and Glenn Schwab Teaching Materials Fund](#), the [Daugherty Water for Food Global Institute](#), and the [University of Nebraska-Lincoln](#).

[Back to top](#)

Expanding Journal Review Opportunities to Grad Students, Postdocs

The Journal Editorial Board is encouraging reviewers that decline to review a manuscript to consider suggesting highly competent graduate students and postdocs as reviewers to

further engage them in the review process.

If your department would like to participate, please contact [Garey Fox](#).

[Back to top](#)

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.

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

[Back to top](#)

Job Postings Earn a 2-for-1

DYK. . . Employment postings for [print ads in *Resource* magazine](#) get a free ad in the online [Career Center](#)? Starting at \$420, they are listed online within three business days of final approval. You may make the online ad larger or different at no extra cost. Internship postings, online only, are free for 180 days.

[Back to top](#)

Associate Editor Workshop at AIM

The Journal Editorial Board hosted an Associate Editor Best Practices Workshop at the 2021 ASABE Annual International Meeting. This roundtable discussion focused on best practices for associate editors as part of handling manuscripts for the ASABE journals. We discussed best practices for when to reject a manuscript without review, finding and selecting reviewers, making recommendations relative to the number of reviews received, emphasizing innovation (novelty), and handling plagiarism concerns.

Future workshops are being scheduled. Look for those announcements in this newsletter.

[Back to top](#)

Discount for Publishing Your AIM21 Paper with ASABE

Convert your 2021 AIM presentation to a journal article and receive a page-charge discount of \$100, or 10% if over 10 pages for the final layout. You must have registered for the 2021 annual meeting, have presented your work at the 2021 AIM, and submit your manuscript to ScholarOne by October 1, 2021.

When uploading to ScholarOne, at the end of "Step 1: Type, Title, & Abstract," be sure to select the special collection "Annual International Meeting (AIM) Discount" and include in your cover letter your 2021 AIM paper number.

[Back to top](#)

Greer Takes on New Role with ASABE Publications

We are pleased to announce that part-time staff member Valerie Greer has moved to a full-time Publications position. Greer will handle a variety of tasks including working with ScholarOne administration and journal and textbook production.

[Back to top](#)

ORCID and ASABE Journals

The [ORCID](#) (Open Researcher and Contributor ID) can be used to easily pull author information into ScholarOne. However, if the author has not kept his or her ORCID profile updated, incorrect information may result. Be sure that author 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.

[Back to top](#)

2022 ASABE Awards Nominations

Nominations for ASABE's major awards will open September 1 and close October 31.

For more details and a complete list of ASABE major awards, please visit the awards [homepage](#).

[Back to top](#)

New Issue of *Transactions* Posted

A new issue of *Transactions of the ASABE* just posted to the ASABE Online Technical Library.

View the [table of contents](#) with links to the abstract, full text, and citation. Visit the [Transactions of the ASABE](#) home page to learn more.

[Back to top](#)

Recent Standards Activities

Proposed Projects

- X478.1WD, Withdrawal of ANSI/ASAE S478.1 FEB2012 (R2016), Roll-Over Protective Structures (ROPS) for Compact Utility Tractors

Revisions

- ASAE S268.7 JUL2021, Terrace Systems
- ASAE D245.7 JUL2021, Moisture Relationships of Plant-Based Agricultural Products

Press Releases

- August 20, 2021, ASABE Revises Data Document for Calculating Moisture Content of Stored Agricultural Products

[Back to top](#)



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