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September 2021

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From the Executive Director



It happens just every three years, but it's worth the wait! I'm referring to the [Discover issue of Resource magazine](#), showcasing young people and their careers in agricultural and biological engineering. It's now available online, and print copies will be arriving soon. Learning about the difference that these young and diverse ABE professionals are making is inspirational! Some of them are already leading international organizations and nonprofits, focusing on environmental quality, natural resources engineering, machinery systems, sustainability, food engineering and renewable energy.

The young engineers featured in Discover will change ASABE and the world, just as 77-year member and Past President Sherwood DeForest did during his long affiliation with the Society. Sherwood is on my mind because he recently celebrated his 100th birthday!

Earlier this year, I interviewed Sherwood for a [YouTube video on the life and times of ASABE founder J. B. Davidson](#). Just last week, Sherwood sent me an email (how many 100-year-olds do you know who email?) reflecting on his time with ASABE. "Looking back," he said, "It's obvious that one of the smartest decisions I ever made was to join ASABE and be active in it for so many years. Of particular value was the many contacts I made through ASABE, which aided me in my career and later in consulting jobs around the U.S. and in Pakistan and Portugal, including four months at ASABE headquarters." Congratulations, Sherwood! We thank you for your leadership, and we wish you many more years of health and activity.

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ASABE Annual International Meetings

2022 Annual International Meeting

July 17-20

Marquis Marriott, Houston

Call for Abstracts Opens in October

Coming next month, the call for abstracts for the 2022 AIM will open, with a wide selection of subject areas, across all of our technical communities. Full details on how to submit including author and presenter requirements will be found at the submission portal. Abstract submissions will be accepted until early January. Check the [meeting site](#) and follow ASABE on social media posts for updates.

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](#)

ASABE to Lead Session at 2021 Sustainable Agriculture Summit

ASABE recently submitted and was approved to present a virtual breakout session at the [2021 Sustainable Agriculture Summit](#) November 17-18 in Las Vegas. This interactive and virtual session will feature real-time audience engagement, specific examples scoping agricultural supply chain circularity, and the voices leading ASABE's "Transforming Food and Agriculture to Circular Systems" (TFACS) initiative. TFACS is focused on collaboration across food and agricultural systems with farmers, agricultural industry, academic institutions, conservation organizations, governmental agencies, and the broader public. Outcomes will also include prioritized actions for cross-sector work to improve farmer and rancher economics, food supply chain resilience, reduced food waste, and broader circular economies.

Session speakers—Jim Jones, Lara Moody, Ed Barnes, Nick Goeser—will offer farm, business, and research perspectives on how circular economies optimize farm and ranch production, keep products and

insights into pathways to improve agricultural and food systems resilience—especially under unexpected events, such as a global pandemic.

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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 “[Agricultural Conservation Practice Effectiveness](#).”

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Thank You to Our Journal Reviewers

The ASABE peer-review process would not be possible without the participation of the reviewers who volunteer their time. Their expertise and willingness to assist colleagues in enhancing their manuscripts is much appreciated. Their dedication and work has helped to establish *Transactions of the ASABE*, *Applied Engineering in Agriculture* and the *Journal of Agricultural Safety and Health* as leading journals in the area of agricultural and biological engineering.

The editors recognize and thank [all of our volunteers](#) for generously contributing their time and expertise to the ASABE journals. Special acknowledgment is given to those who in 2020 earned Outstanding Reviewer and High-Performing Reviewer recognition.

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"Discover" Issue of Resource Spotlights Careers

Have you had the chance to look through the [latest issue of Resource magazine](#)? It's a special one!

The "Discover" issue of *Resource* is published every three years and spotlights schools and students that exemplify the educational pathways and career opportunities available in agricultural and biological engineering. It's an excellent publication that we're always proud to distribute, at a variety of events, to showcase the profession.

"Discover" is packed with personal stories of current students and recent graduates, offering a panoramic view of the academic, industry internship, and foreign study opportunities that are available through ag/bio engineering programs. It highlights students and job newcomers with interesting backgrounds and résumés and provides up-to-date career possibilities and job scenarios.

Interested in ordering printed copies for your school? Visit us at www.asabe.org/OrderPubs.

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Soil Erosion Symposium Registration Open



January 9-14, Aguadilla, Puerto Rico

Registration continues for the [Soil Erosion Research Symposium](#), taking place in Puerto Rico, January 2022. Here's a reminder to those who submitted abstracts that the presenting author must be registered by October 1 to confirm inclusion in the program.

The host hotel for this event is the Punta Borinquen Resort in Aguadilla, with accommodations offered at the neighboring Marriott.

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

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Order Your 2021-2022 Member Roster

The printed member roster, available exclusively to ASABE members, remains a popular publication thanks to its ease of use and rich content. This excellent reference publication offers not only contact information for fellow ASABE members around the world, but also organizational and historical details of the Society, like the constitution and bylaws, section officers, directories of past presidents and Fellows, and a staff directory. All at your fingertips—no clicking, typing, or login required. Contact us at www.asabe.org/OrderPeriodicals or call 800-695-2723 to order your copy.

Cost is only \$39, plus postage and handling. Published and mailed in November.

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Energy Conference to Take Place in Costa Rica



An ASABE Global Initiative Conference

Sustainable Energy for a Sustainable Future

May 16-19, 2022 • San Jose, Costa Rica



The call for abstracts is now open for the third event in the ASABE Global Initiative series of conferences, Sustainable Energy for a Sustainable Future. Submit now through January 31 to share your research and views about our global energy concerns. The submission portal and program details can be found at the [conference website](#).

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Member Hour: Transforming Food and Agriculture to Circular Systems

When circularity becomes central to our global food security agenda: Concepts to implementation readiness in rice value chain



Ebenezer Miezah Kwofie, PhD

**Thursday, September 30, 2021
1:00-2:00 pm eastern**



Register Now for the National Irrigation Symposium

December 6-10, 2021

Registration is open for the [6th Decennial National Irrigation Symposium and Irrigation show](#). ASABE members enjoy discounted rates to attend the show, hosted jointly by ASABE and the Irrigation Association. Use code *ASABE21* at registration checkout to obtain the \$65 discount

Details on the symposium schedule and sessions will updated soon.

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Matlock Tapped for USDA Advisory Position

The USDA recently named ASABE Member Marty Matlock to a key position in its Marketing and Regulatory Programs.

Matlock will serve as senior advisor for food systems resiliency.

"USDA continues to add talented individuals to our growing team, and this outstanding slate of leaders is no exception," [Agriculture Secretary Tom Vilsack said](#) of Matlock's placement. "They each will play an



Matlock is a member of the Cherokee Nation, and his placement in the USDA program speaks to the value of his work, said Principal Chief Chuck Hoskin Jr.

“Marty Matlock served on our Environmental Protection Commission for over a decade overseeing the Cherokee Nation’s environmental programs, and his wealth of expertise in agriculture and food sustainability will be an immeasurable resource for the USDA,” Hoskin said. “Also, anytime our top federal government agencies add leaders who are tribal citizens or bring a tribal perspective to shape decisions and policies, it advances all of Indian Country.”

The hard work, dedication and passion Matlock has demonstrated throughout his academic and professional careers will be valuable assets to his new responsibilities and the country, said Mari Chinn, department head of biosystems and agricultural engineering at Oklahoma State University, where Matlock obtained his PhD in biosystems engineering.

“For someone to represent our discipline as an OSU alum at that level is an honor. His diversity in background and experience will undoubtedly add value to the USDA team and its leadership,” Chinn said.

Matlock was founding executive director of the University of Arkansas Resiliency Center and is a professor in the department of biological and agricultural engineering. He received the 2018 CAST Borlaug Agriculture Communications Award, and he served on the U.S. Environmental Protection Agency’s Science Advisory Committee for Agriculture as well as the USDA Advisory Committee on Biotechnology and 21st Century Agriculture.

Matlock is a 27-year member of ASABE.

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Campbell Wins Nye Graduate Fellowship

ASABE is pleased to announce Vashti Campbell the winner of a John C. Nye Graduate Fellowship for 2021. Campbell is a PhD student at North Carolina State University.

The John C. Nye Graduate Fellowship is dedicated to expanding the diversity of our Society. It was designed to encourage underrepresented minority PhD-student participation in ASABE and aid minorities pursuing doctorate degrees in agricultural and biological engineering. The \$2000 fellowship is awarded annually. Application and eligibility details are available [online](#).

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2022 ASABE Awards Nominations

Nominations for ASABE’s major awards are now open and will close October 31.

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

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New Among Our Open-Access Journal Articles

[Maximizing Processing Value with Selective Handling Strategies: An Analysis of Soybeans Received at Iowa Elevators](#)

[Integrating Daily CO₂ Concentrations in SWAT-VSA to Examine Climate Change Impacts on Hydrology in a Karst Watershed](#)

[An Environmental Assessment of Cattle Manure and Urea Fertilizer Treatments for Corn Production in the Northern Great Plains](#)

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.

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Publications Department Welcomes New Staff Member

We are pleased to announce a new employee, Jill Straub. Straub will handle administrative tasks and be a key point of contact for all technical publications.

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Recent Standards Activities

Proposed Projects

- X354.8, Safety for Farmstead Equipment
- X390.7, Tractors and machinery for agriculture and forestry - Basic types - Vocabulary
- X612.1, Energy Analysis of Agricultural Operations
- X640.1, Quantities and Units of Electromagnetic Radiation for Plants (Photosynthetic Organisms)
- X4254-16:2018, Agricultural machinery - Safety - Part 16: Portable agricultural grain augers, identical adoption of ISO 4254-16:2018
- X12140-1:2020, Agricultural trailers and trailed equipment - Drawbar jacks - Part 1: Design safety, test methods and acceptance criteria, identical adoption of ISO 12140-1:2020
- X12140-2:2020, Agricultural trailers and trailed equipment - Drawbar jacks - Part 2: Application safety, test methods and acceptance criteria, identical adoption of ISO 12140-2:2020 tors

Press Releases

- August 26, 2021, ASABE to Adopt New Version of ISO Standard on Agricultural Machinery

Job Board

The Department of Agricultural and Biosystems Engineering at Iowa State University invites applications for the position of tenure-track assistant or tenured associate professor with research interests in forward-looking areas of data science and analytics in applications relevant to Iowa agriculture and/or industries, and teaching abilities relevant to core departmental courses. Exceptional candidates with commensurate experience and proven track record will be considered for the rank of associate professor. This is a 9-month position with potential for summer funding. The position is 45% research, 45% teaching, and 10% professional and institutional service. [Full details](#)

The Department of Agricultural and Biosystems Engineering at Iowa State University seeks to hire an assistant or associate professor in the areas of modern industry, technology, and manufacturing. This is a 9-month, tenured/tenure-track position with potential for summer funding. The position is 45% research, 45% teaching, and 10% professional and institutional service. [Full details](#)

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