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May 2021

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From the Executive Director



I know of people who believe that virtual meetings are better than real meetings. However, if I've learned anything over the last 14 months, it's that I crave in-person interactions and the temporal anchoring that comes from real-world events. I smiled when I saw a recent ad encouraging people to travel again: "Zoom and pajama pants are so 2020.

Dust off your travel clothes and brush up your in-person social skills!" I would also add that "everyone's audio and video are on when people meet in person."



It's exciting to see travel return. Earlier this week at headquarters, we welcomed a group of member leaders from the MS-23/6 committee for sprayers and application equipment. They are planning for an international standards meeting here in Saint Joseph, Michigan, in the fall of 2022. In the meantime, the International 1/4-Scale Tractor Student Design Competition will be our first major in-person event since the shutdown. The competing teams and their fans will meet in Peoria, Illinois, over Memorial Day weekend. The 1/4-Scale Competition will be followed by the Florida section's in-person annual meeting June 9-12 in Daytona Beach. There is still [time to register](#) for this event.

Momentum continues to build for what promises to be our second-ever, and best-ever, virtual annual international meeting. To date, we have more than 1,000 registered! And undergraduate students can attend for free. Be sure to [check out the AIM](#) after the upcoming holiday weekend, when new details and expanded programming will be announced.

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. 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.

Congratulations to the 2021 Class of Fellows

ASABE is honored to announce the 2021 Class of Fellows. These individuals will be inducted as ASABE Fellows during a virtual ceremony during the Annual International Meeting. Details for the ceremony will be posted at www.asabe.org/Fellows

ASABE Fellows—Class of 2021

Ali Demirci
Shufeng Han, PE
Daren Harmel
Terry A. Howell, Jr, PE
Rodney L. Huffman, PE
Parameswaran Kumar Mallikarjunan
Saqib Mukhtar, PE
Ramesh Rudra, PE
Charles V. Schwab
Vijay Singh
Heping Zhu

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Highlights of the April Board of Trustees Meeting

The Board of Trustees held its annual spring meeting last month, and here are some of the key developments from that meeting.

Thanks to excellent fiscal management, two successful applications for the Paycheck Protection Program, and solid performance of the restricted reserve, the Society is sitting on solid financial ground. The board approved initiative funding for 2021 and is looking to apply additional funding towards strategic purposes. Those with promising ideas are encouraged to [submit an initiative fund proposal](#), working through a Society community, council, or committee.

The board reviewed the 2020 Strategic Metrics report developed by E-09 and ASABE Staff.

The Board approved renaming *Transactions of the ASABE* to *Journal of the ASABE*, as recommended by the journal editorial board and the Publications council. There has been concern the original name suggested that the contents represent meeting presentations. The renaming is expected to eliminate that ambiguity and improve the journal's impact factor.

The Board discussed formalizing the structure of the Transforming Food and Agriculture to Circular Systems (formerly Circular Economies) initiative as well as the possibility of engaging a consultant to assist with managing it.

Shane Williams, co-chair of the Student Engagement and Retention ad hoc committee, gave an overview of the committee's progress and a set of recommendations. The Board encouraged the committee to continue working through the details of the recommendations with hopes of implementing some in 2022.

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Winners of ASABE Major Awards Announced

The ASABE awards program is pleased to announce the recipients of ASABE's 2021 major awards! These individuals will be honored during a virtual ceremony during the Annual International Meeting. Details for the ceremony will be posted on the [ASABE website](#).

Pharos of Alexandria Global Learning – Sara Weyer
Yoerger Preprofessional Engineer of the Year – Carly Graves
Robert E. Stewart Engineering-Humanities – Qualla Ketchum
Gale A. Holloway Professional Development – Shane Williams
New Holland Young Researcher – Ajay Kumar
Larry W. Turner Young Extension Professional – Daran Rudnick
A.W. Farrall Young Educator – Santosh Pitla
Sunkist Young Designer – Lilong Chai

John Deere Gold Medal – Indrajeet Chaubey
Rain Bird Engineering Concept of the Year – Ajay Sharda, Sylvester Badua, and Daniel Flippo, "Sensing System for Real-time Corn Seed localization (Seed Spacing, Depth and Geo-location)"
James R. and Karen A. Gilley Academic Leadership – Garey Fox
Evelyn E. Rosentreter Standards – Bruce Hawkins
PEI Professional Engineer of the Year – Christopher Callahan
Kishida International – Klein Ileleji
Sukup Global Food Security Award – Michael Ngadi
Lalit and Aruna Verma Award for Excellence in Global Engagement – KC Ting
McCormick Case Gold Medal – Dennis Bowman
Netafim Microirrigation – Suat Irmak
International Food Engineering – Syed Rizvi
Henry Giese Structures & Environment – Robert Burns
ADS/Hancor Soil and Water Engineering – Suat Irmak
G.B. Gunlogson Countryside Engineering – Richard Stowell
Mayfield Cotton Engineering – Carlos Armijo
SMV Technologies Ergonomics, Safety and Health – Fadi Fathallah
Advancement of Surface Irrigation – Gary Merkley
Heermann Sprinkler Irrigation – Freddie Lamm
Massey-Ferguson Educational Gold Medal – Alan Hansen

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President-Elect, Trustee Nominees Sought for 2022; Nominating Committee Positions to Be Filled

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).

The Good IDEA

Over the past several years, American society has experienced an awakening to the consequences of our divisiveness. Many of us have come to understand the severity of our nation's divisions and recognize the deeply layered challenges facing our society. The conversations that have followed are necessary for our continued growth toward an equitable society.

These conversations impact ASABE as a professional society whose members represent a wide variety of communities that include producers, natural resource managers, biotechnologists, and many other specialists, but they also extend to the end users of agricultural production. With a substantial number of our members working in extension roles at land grant institutions, we understand, maybe better than most professional societies, that finding solutions to problems must involve the end users. Those end users come from different backgrounds. They are as diverse as the world. To meet their needs, we must be more inclusive.

A few months ago, ASABE Past President Sue Nokes asked me to join a new committee, E-03: Inclusion, Diversity, Equity, and Access (IDEA). I was honored to be asked to serve.

At our first meeting, we discussed the traditional leadership positions of chair, vice-chair, and secretary. A member of the new committee suggested that we should not ask a woman to lead. That may seem counter-intuitive at first glance, but I quickly agreed because too often we expect women to advocate for themselves instead of expecting their male colleagues to advocate for change.

In other words, making things better is everyone's responsibility.

Elected to serve as chair of the E-03 committee, I've never felt more unprepared for a role than I do now. Fortunately, the committee members are all well informed, well equipped, and perfectly attuned to making ASABE more inclusive. I have a lot to learn from them, and from you, and I will strive to help ASABE continue to do better.

Collectively representing a broad array of skills and experiences, my fellow members of E-03 include Robert Gustafson, Roger Hoy, Sherry Hunt, Daniela Gonzales Jones, Deepak Keshwani, Kati White Migliaccio, Sue Nokes, Valerie Orsat, Mikela Pryor, Veronika Vazhnik, as well as ASABE Communications Director Dolores Landeck.

The responsibilities of E-03 can be summarized as follows:

- to foster and promote actions to improve IDEA
- to lead outreach and dialogue
- to advance IDEA concepts at ASABE events
- to provide related educational opportunities
- to review and implement policies and procedures for addressing unethical behavior in ASABE's programs and activities
- to investigate unethical conduct, as directed by the Board

The first task of E-03 is to develop activities that map to each of these responsibilities. In

the coming months, we will be asking for volunteers to join us in helping to build a more inclusive and more supportive ASABE.

To learn more about E-03 and the promising work that lies ahead, I invite you to read my "[Last Word](#)" column in the current issue of *Resource* magazine, written on behalf of the committee.

Mark Riley

Chair, E-03, Inclusivity, Diversity, Equity, and Access committee

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New Teaching Modules on Data Science

Peer-reviewed teaching modules have been added for [Case Studies and Modules for Data Science Instruction](#). These modules are the result of by-invitation sessions at the 2020 ASABE Annual International Meeting where we asked members to present and package some of their instructional resources. There will be another session at the 2021 AIM which will contribute new modules for our library sometime after AIM. See the video or download the files for these topics:

- [Analyzing Sensor Data at the Source](#), by Sierra Young
- [Problem-Centered Data Science Education in the Agricultural and Biological Engineering Classroom: Analyzing Air Quality Index Data in R](#), by Natalie Nelson
- [An Introduction to Automated Visual Sensemaking for Animal Production Systems](#), by Divya Handa, Armin Moghadam, Abdullah Sourav, Ryan Jeon, Julia Chen, Joshua Peschel
- [Row-Crop Field Machinery CAN Bus Data Collection](#), by Santosh Kumar Pitla, CheeTown Liew by Santosh Kumar Pitla, CheeTown View

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ASABE Member Hours Are Back!

Join us for two learning and networking sessions in June.

#GetInvolved

June 7, 2021, Noon-1:00 pm (eastern)

Join us for a virtual networking session hosted by ASABE President, Candi Engler. Share your stories of Society involvement and learn more about ways to engage.

[Register](#)

AIM Preparation

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

The Society's flagship event, the annual international meeting, takes place virtually this year, July 12-16. Join this development opportunity to see programming highlights and get a sneak peek at the format and virtual tool we'll be using for this event!

[Register](#)

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Site Licenses—How Your University Can Participate

With just a few minutes of your time, you can help your university obtain full access to the ASABE library. Contact your library and let them know about what you need. Libraries typically rely on requests from faculty or staff before they subscribe to a publisher's content. The more requests your library receives, the more likely your library will be to subscribe.

Your library may have a recommendation form on their website, or email your library and tell them of your need and send them this [link](#).

The ASABE Technical Library includes more than 35,000 journal articles, textbooks, official standards, and other material. Many institutions that are related to agricultural and biological engineering, across the U.S. and in many other countries, already have this access.

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Guide to Consultants Now Available

The 2021 Guide to Consultants, a supplement of *Resource*, is now available [online](#), and the print edition is included with the May/June issue. This concise reference helps you to find the right expertise for your project. An agricultural or biological engineering consultant offers years of experience, education, and, in most cases, professional engineering credentials.

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Advertise Your Department in "Discover" Issue of *Resource*

The "Discover" special issue of *Resource* will be available in the September/October 2021 issue. University departments can [purchase advertising](#) in this issue by emailing [Sandy Rutter](#). This issue spotlights departments and promotes agricultural and biological engineering to prospective students. Advertisers receive copies for distribution, and we also provide copies upon request for career materials from individuals and teachers.

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Renew Your 2021 Print Journal Subscriptions

Renew your ASABE journal subscriptions now! For the 2021 prices, visit www.asabe.org/OrderPeriodicals or contact Subscriptions@asabe.org. Technology is changing rapidly and ASABE journals can help you keep pace with important developments that affect your career.

[Applied Engineering in Agriculture](#)
[Journal of Agricultural Safety and Health](#)
[Transactions of the ASABE](#)

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Discount for Publishing Your AIM Presentation in Our Journals

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 be registered for the 2021 annual meeting, present 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.

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May/June Resource is Now Available Online

This issue surveys the variety of research and development that ASABE members are doing in the world, from facial recognition of farm animals to the use of drones and big data in agriculture. A call to teach biology to engineers, announcement of the ASABE open textbook in biosystems engineering, and further exploration of ASABE's initiative to promote inclusion, diversity, equity, and access (IDEA) round out the issue. Enjoy the latest issue, available in [PDF](#) and [online](#), or peruse [past issues](#).

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Journal Special Collection: Agricultural Conservation Practice Effectiveness

A new journal special collection offers literature reviews that document the performance and cost effectiveness of agricultural conservation practices for conservation crop rotation, cover crops, filter strips, nutrient management, denitrifying bioreactors, and constructed wetlands.

Explore this [new collection](#).

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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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ASABE Standards to Present Webinar on International Participation

Tuesday, June 8, 2021
2:30-5:00 pm (eastern)

The development of international standards is valuable and rewarding work. Make the most of your time spent in meetings by learning from ASABE's experienced leaders. Whether you're a meeting participant or a facilitator, you'll gain insights and confidence in this informative webinar presented by ASABE leaders with deep experience in ISO standards meetings. Attendance is limited, so don't wait to register.

[Register](#)

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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. 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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Jefferson Science Fellows Invites Applications



Established by the U.S. Secretary of State in 2003, the Jefferson Science Fellows (JSF) program engages the academic science, technology, engineering, and medical communities in U.S. foreign policy and international development.

The fellowship is open to tenured, or similarly ranked, faculty from U.S. institutions of higher learning who are U.S. citizens. After successfully obtaining a security clearance, selected Fellows spend one year on assignment at the U.S. Department of State or the U.S. Agency for International Development (USAID), serving as advisers on issues of foreign policy and international development.

Applications will be accepted from early August through mid-October. To learn more, visit www.nas.edu/jsf.

The JSF program is administered by the National Academies of Sciences, Engineering, and Medicine and supported by the U.S. Department of State and USAID.

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