

American Society of Agricultural and Biological Engineers



Inside ASABE

News for and about ASABE members

July 31, 2019

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From the Executive Director

The 2019 Annual International Meeting (AIM) is now a memory, but a good one. Total attendance in Boston was 1,808, and nearly 48% of those attendees were age 35 and under. Striving for a younger AIM has been a long-time goal, and it's great to see that we're making sustained progress. It was also a diverse meeting, with people from 48 states, 8 provinces, and 36 countries. A highlight was incoming President Sue Nokes (photo, right) explaining the importance of "interconnections," which is the theme for her term of office.

As Sue said, "My presidential priorities will be centered on developing our Society's culture so that every member feels valued and can participate



Upcoming
Meetings
and
Other Events

Michigan
September 26

More
Information



authentically, and I will lead in articulating strong, clear, transparent guidelines for what this culture looks like. We generate amazing synergy when we work together for a common purpose. Interconnections spark creativity and the pooling of resources, which enables significant progress toward achieving our noble mission, and that makes the journey more rewarding for everyone. I believe that if we cultivate a diverse, thriving, and engaged membership, nothing is impossible.”

Look forward to learning more about President Nokes’s vision in the coming months. Also, mark your calendar for the Omaha AIM on July 12-15, 2020. A major plus for heading to Nebraska next year is to help celebrate the 100th anniversary of the Nebraska Tractor Test Laboratory, and the significant historical impact it has on machinery testing. A big event is in the works at the lab, as well as a record number of technical tours in the greater Omaha area.

Darrin J. Drollinger
Executive Director

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AIM 2019 Papers Online; Submit Now for 2020 Tech Sessions



The 2019 Annual International Meeting (AIM) had a great turnout, with more than 1800 registered! Thanks to all who attended, presented, participated in competitions, and otherwise contributed to the success of the meeting.

The Technical Library hosts all of the submitted papers from the technical sessions. To access them, log in

to www.asabe.org, then select "[Browse Publications](#)" under the Technical Library.

Technical session submissions for the 2020 AIM are being accepted now through August 31. Connect with your [Technical Community program chair](#) to submit.

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Invited Session on Autonomous Equipment Draws Strong Interest



As the 2019 ASABE Annual International Meeting was winding down Wednesday afternoon, one group of ASABE members was just getting started.

Leadership from a half dozen technical committees from the Information Technology, Sensors, and Control Systems and the Machinery Systems technical communities hosted an invited session on

autonomous field equipment, the culmination of a full year of planning. The event drew nearly 90 attendees, who heard presentations from the Agricultural Electronic Foundation, European Agriculture Machinery Association, CNH Industrial, and university researchers. Guest speakers presented on the current status of autonomy in field equipment as well as related work in electronics and machine communication.

One impetus for the session was the anticipation of future standards development for autonomous equipment and to encourage interested members to become more involved on national and international levels.

Join us in
welcoming
our most recent

**NEW
MEMBERS**

June
2019

Click

Discussion and information sharing will continue via an ad hoc forum. Those interested in joining this forum may contact [Jean Walsh](#).

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Documenting the Profession's Role in Ag Safety and Health

The Board of Trustees has approved funding of \$6,000 for a proposal initiated by ASABE member Dennis Murphy and the Agricultural Safety and Health Council of America. The outcome of the project will be a historical record of the development and progression of the profession of agricultural safety and health in the United States. By preserving original and meaningful documents, images, stories, and places, someone in the future has them to organize into a text with analyses for future directions, efforts and approaches to agricultural injury prevention. Upon completion, this record will be made available by the USDA's National Agricultural Library Special Collections as an essential component for contemporary and future discussions.

Funding for this project and others is made available through the Society's [Initiative Fund](#).

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AE50 Nominations Now Open



Do you have innovative products that were first made available for purchase or ordering during the 2019 calendar year? We encourage you to nominate that product for an AE50 award.

Today's AE50 winners typically include machines, systems, components, software, and services. Products are judged on innovation, significant engineering advancement, and impact on the markets they serve. Awards are presented at ASABE's annual [Agricultural Equipment Technology Conference](#). The award-winning products are also highlighted in a special issue of ASABE's **Resource** magazine.

Additionally, the top 10 AE50 products are eligible for Davidson Prize consideration. ASABE is once again teaming up with the Association of Equipment Manufacturers to make this prestigious presentation to the three AE50 winners judged to be the best of the best.

Entry deadline for AE50 is September 1, 2019. For more details, see the guidelines and entry form online at www.asabe.org/AE50. If you have questions about the AE50 Awards program or the Davidson Prize, please contact awards@asabe.org.

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2019 Standards Development Awards

At the 2019 Annual International Meeting, recognition was given to those groups who brought to completion standards projects notable for the complexity and effort required in achieving consensus. ASABE extends appreciation to those involved in the following projects.

ASABE S573 OCT2018, Procedures for Evaluating Variable-Rate Granular Material Application Accuracy (New standard)

MS-54, Precision Agriculture

ANSI/ASABE S613-3.1 JUN2018 Tractors and self-propelled machinery for agriculture—Air quality systems for cabs—Part 3: Filters for environmental cab HVAC systems (Revised standard)

MS-23/2/2 Environment within Ag Vehicle Enclosures

ANSI/ASABE S624 AUG2018, Grain Bin Access Design Safety (New standard)

PAFS-20 Structures Group, developed by the X624 Standards Development committee

ANSI/ASABE S632-1 JUL 2018, Precision Agriculture Irrigation Language: Core

Concepts, Processes, and Objects, and ANSI/ASABE S632-3 JUL 2018, Precision Agriculture Irrigation Language: Irrigation System Operations (New standards)
NRES-244 Irrigation Management

ANSI/ASABE S641 MAY2018, Droplet Size Classification of Aerial Application Nozzles (New standard)
MS-23/6/1 Liquid Application

ANSI/ASABE S642 SEP2018, Recommended Methods for Measurement and Testing of LED Products for Plant Growth and Development (New standard)
ES-311 Electromagnetic Radiation Application for Plants

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Congratulations to ASABE Blue-Ribbon Award Winners

Winners of the 2019 ASABE Educational Aids Blue Ribbon awards were recognized during the General Session Recognition and Keynote Speaker program at the 2019 Annual International Meeting. The Society extends its deepest appreciation to the following individuals for their outstanding efforts in developing noteworthy educational materials over the past year.

Electronic & Web-Based Delivery

Electronic Delivery: DVDs, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts

Carmen Agouridis and Amanda Gumbert
 "Backyard Streams"
 University of Kentucky

J. Bryan Unruh, Esen Momol, Michael Thomas, C.J. Bain, Thomas Wichman, Laurie Trenholm, John Bossart, and Michael D. Dukes
 "Florida Fertilizer Ordinance Mobile Web App Matches Work Locations to Applicable Regulations"
 University of Florida, Florida Department of Environmental Protection

John Fulton and Jenna Lee
 "Ohio State PLOTS (mobile application)"
 Ohio State University

Rebecca G. Lawver and Michael L. Pate
 "Safety in Agriculture for Youth (SAY) Teacher Update"
 Utah State University and Pennsylvania State University

Websites

Sammy Sadaka
[Arkansas grain Drying and Storage](#)
 University of Arkansas, Division of Agriculture

Eileen Fabian, Daniel Hofstetter, Rebecca Larson, Horacio Aguirre-Villegas, and Carolyn Betz
[Virtual Farm-Dairy](#)
 Pennsylvania State University and University of Wisconsin

Publications, Print or Electronic

Publications—Short (less than 9 pages)

Edral Ozkan and Kathy Smith
 "Calibrating Small Boom Sprayers and Backpack Sprayers for Forestry Herbicide Applications"
 Ohio State University

Steve Hanson, Leslie Beck, Nancy Flores, Stephanie Walker, Mark Marsalis, and Richard Heerema
 "GMO Crops in New Mexico Agriculture"
 New Mexico State University

Sammy Sadaka
 "Grain Bin Entrapment and Engulfment Causes, Prevention and Rescue"
 University of Arkansas Division of Agriculture

Danny H. Rogers, Freddie R. Lamm, and Jonathan Aguilar
 "Subsurface Drip Irrigation (SDI) in Kansas: An Overview"
 Kansas State University

Publications—Medium (9-16 pages)

A.J. Tarpoff, Justin Waggoner, Christopher Reinhardt, Joel DeRouche, Sandy Johnson, Eli Sheppard, and Joe Harner
 "Designing a Bud Box for Cattle Handling"
 Kansas State University

Steve Clarke, Arlene Robertson, Colleen Fitzgerald-Hubble, Andrew Jamieson, and Paul Gripe
 "Electricity Generation Using Small Wind Turbines for Home or Farm Use"
 Canadian Ministry of Agriculture, Food, & Rural Affairs and Wind-Works

Vivek Sharma
 "Irrigation Management: Basics of Soil Water"
 University of Wyoming

Publications—Long (17-32 pages)

No Recipients for 2019

Publications—Comprehensive (33 or more pages)

No recipients for 2019

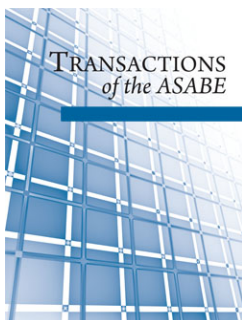
Extension Methods and Impact

High-Impact Extension Methods

No recipients for 2019

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On the Rise: Journals Record Highest-Ever Impact Factors



We're pleased to announce that impact factors released in June are the highest ever for both **Transactions of the ASABE** and **Applied Engineering in Agriculture**. This is the fifth consecutive year of increase for **Transactions of the ASABE**.

Please see our journal home pages for more information:

www.asabe.org/Transactions

www.asabe.org/Applied

www.asabe.org/JASH

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ASABE Staff Positions Open

ASABE has announced two job openings on headquarters staff—director of membership, and development specialist—and we hope you'll help us spread the word. For both positions, an understanding of the "engineering mindset" and an

international audience would be beneficial, so the right candidates might well be among your personal and professional acquaintances.

Find details on both positions [here](#).

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New Journal Copyright Form

The journal [copyright form](#) has been revised. Please note the **Open Access** option.

Be sure to use the newest template when submitting a manuscript.

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Conference Recognitions

Every year, ASABE recognizes those who dedicate time and leadership to ensure the success of specialty conferences. The following individuals were recently honored for contributions made during the past year.

Agricultural Equipment Technology Conference (AETC)
February 2019, Louisville, Kentucky
Rusty Unterzuber, Chair

International Livestock Environment Symposium (ILES X)
September 2018, Omaha, Nebraska
Morgan Hayes, Chair

Global Water Security Conference
October 2018, Hyderabad, India
Indrajeet Chaubey and Indra Mani, Co-Chairs

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Convert Your AIM Paper to a Peer-Reviewed Journal Article

Get published in one of ASABE's peer-reviewed journals. Your annual meeting paper has a very similar format to our journals, making it easy to move ahead.

To get started quickly, [read the overview](#).

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Benefits of Using the Journal Template

Please use a current Microsoft Word [template file](#) when submitting documents to us. These templates make peer review faster for reviewers, save you time, reduce staff processing time, improve indexing, and make papers look more uniform for a professional appearance. Also use the Guide for Authors when preparing your manuscript.

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Citations Available on Technical Library Abstracts

We now provide a link to citations of journal articles using the Dimensions database. Please see this article for an example:
<https://doi.org/10.13031/trans.12431>

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Authors: Add Highlights to Your Journal Article to Aid Promotion

New for journal manuscript submissions: Please include three or four highlights with primary findings and implications of your article. Each highlight must be 100

characters or less, excluding spaces.

Highlights will be used to promote articles in social media and email. As an author, you know the key points that will be of interest to readers, so help us increase the visibility of your work.

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In Memoriam - Albert M. Best



ASABE Fellow and Past President Albert Marlin Best, 99, was born September 20, 1919, at Knox, Pa. He was the son of George and Ada Master Best. He died June 26, 2019, at the Willow Valley Communities, Lancaster, Pa.

Best graduated from Emlenton High School in 1937 and worked his way through Pennsylvania State University, graduating in 1942 with a BS in agricultural engineering.

He married F. Jane Evans, of New Holland, on June 15, 1946. Their family includes David and Janet Best, Spencerport, N.Y.; Barbara and Paul Ruskin, State College Pa.; Nancy and Gary Bennett, Lancaster, Pa.; Susan Best and Francis Talarowski, Philadelphia Pa.; nine grandchildren and 14 great grandchildren. He was preceded in death by a sister, Hazel Fleming, who died in 1977. Best was a member of Trinity Lutheran Church, New Holland, serving on numerous committees, as well as an associate member of Holy Trinity Lutheran Church, Lancaster, Pa.

Best enjoyed a forty-year career with New Holland Machine Company, retiring in 1982 as director of worldwide engineering research. He held 28 patents in farm equipment when he retired.

He was an active member of ASABE since 1942. As president from 1979 to 1980, he led 15 Society members to China for a 21-day trip at the invitation of the Chinese Society of Agricultural Machinery. He served eight years on the Agricultural Advisory Council to the dean of agriculture at Penn State. He was a member of two honorary fraternities and listed in **Who's Who in America** and **Who's Who in Engineering**.

He served his community as a president of the Kiwanis Club in 1954 and was treasurer of the New Holland School Board during its transition to Eastern Lancaster County School District. He also served on the New Holland Borough Water and Sewer Authority from 1972 to 1994, chairing from 1982 to 1993.

Best enjoyed outdoor activities and owned and operated a Christmas tree farm, selling trees to local and regional clubs. His passion was woodworking, and he made more than 60 pieces of furniture for his family, including 29 Windsor chairs and nine tall-case clock cases. Each clock had a unique movement and painted dial. One such timepiece was presented to the Society on the retirement of Executive Vice President Jimmy Butt, in 1986. The clock, shown at right, stands in the reception area of ASABE headquarters, in St. Joseph, Mich.



Best is remembered as kind and fair; and his droll sense of humor was enjoyed by those who knew him well. He was a gentleman.

Given his long-time association with ASABE and that his entire career was with New Holland, the family requests that those wishing to honor Best's memory make a memorial to the New Holland Young Researcher Award, [ASABE Foundation](#), 2950 Niles Rd., St. Joseph, Mich., 49085.

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Recent Standards Activities

Press Releases

- June 24, 2019, Progress Made on International Standards for Solid Biofuels, Participants Sought

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