

American Society of Agricultural and Biological Engineers



Inside ASABE

News for and about ASABE members

March 31, 2020

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**WELCOME
New
Members!**

We're pleased to share the names of new, reinstated, and student-transfer members added to the ASABE family in the month of FEBRUARY

**Click to see
who's joined
your
professional
network!**

From the Executive Director

Almost overnight, COVID-19 has changed our lives in previously unimaginable ways and left us all wondering when we will ever get back to normal. No organization is immune to this turmoil, and several upcoming ASABE events have



been canceled or postponed, as shown on our [COVID-19 page](#).

At this point, we're still planning to hold the [2020 AIM in Omaha on July 12-15](#), and all associated student competitions. Obviously, rapidly changing circumstances may impact these decisions and we are giving serious thought to virtual event options.

For students who are considering working on their projects with in-person meetings, please do so only if that's permitted by your university and local health authorities. Any competition activities that you can do remotely, such as generating reports and performing computer simulations, may continue at the discretion of your team advisor. The student competition committees are monitoring current events, and they will provide further guidance in the near future.

ASABE is planning a series of activities on modernizing mechanization for African agriculture, and on a Zoom call earlier today, March 31, several participants expressed how dire food security issues are with COVID-19 in the developing world. Food networks are largely shut down; people are afraid to go out; there is little or no access to processed or packaged foods, so loading up the party is not an option. Difficult times. However, many of these problems ABEs can help solve, and once this crisis is over our skills will be needed more than ever.

Be safe during this difficult time. We're all in this together, and we will get through it together.

Darrin J. Drollinger
Executive Director

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2020 Election Results Announced



Congratulations to the newly elected officers of the Society. Voted onto the Society Board are President-Elect Paul H. Heinemann and Trustees David D. Jones, Kenneth A. Sudduth, and Shane D. Williams.

Joining the Nominating committee are Sreekala G. Bajwa, Morgan D. Hayes, S. Dee Jepsen, Amy L. Kaleita, Elizabeth A. Miller, Lara Beal Moody, and Nurun Nahar.

As president-elect of CSBE, an ex-officio position on the ASABE Board, Chandra Madramootoo also joins as a trustee.

Terms of office begin at the close of the 2020 annual international meeting, in Omaha.

A hearty thanks to all who participated in the election. Your involvement affirms the importance of the work of ASABE and of Society volunteers.

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Last Call for Fellows Nominations



A final reminder that Fellows nomination materials must be submitted by April 15 for consideration in the 2021 class of Fellows.

Find [entry information and nomination instructions](#) online.

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*Upcoming
ASABE
CSBE/SCGAB
Section
Meetings
and
Other Events*

*Because of
COVID-19
events
scheduled during
April and early
May have been
canceled or
postponed*

*Click on this tile
for current details*



PE Exam to Be Rescheduled

NCEES has been monitoring coronavirus developments and their potential impact on its programs and services for several weeks. With a pandemic officially declared for COVID-19, NCEES is taking the following actions to help contain and slow the spread of the virus.

The April 2020 paper-and-pencil exam administration is canceled. Examinees who are registered to take an exam during this administration will receive an automatic full refund of fees paid to NCEES.

Exams offered only once a year during the April 2020 administration will be offered during the October 2020 administration. Registration dates for the October 2020 exam administration will be announced soon.

Additional information will be emailed directly to affected examinees, with additional details available on the [NCEES website](#).

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Supplied Reference Handbook Feedback Requested

The Society's Engineering Licensure committee, EOPD-414, is pleased to announce that a comprehensive ag/bio PE Exam Supplied Reference Handbook (SRH) is available for the agricultural/biological engineering professional engineering (PE) exam. The PE exams in all disciplines are moving to computer-based testing (CBT), which, for the ag/bio exam, will begin in October 2021. The April 2020 exam has been rescheduled until October 2020. More information is available on the [NCEES website](#).

When the ag/bio PE exam is given electronically, it will use two monitors. One will have the exam and the other this SRH, which has been developed by members of the EOPD-414 exam development committee, and a small set of ASABE standards available at [asabe.org](#). The handbook has been reviewed against the bank of questions that can be used on the exam and covers the topics exam candidates will find in the exam. EOPD-414 welcomes feedback about the book by sending email to PE-SRH@asabe.org. You may access the SRH [here](#).

The current version of the SRH has been compiled for use on the 2020 PE Exam. Following completion of the 2020 exam, feedback and formatting modifications will be made for use on a computer screen. Comments are requested by an estimated deadline of November 15, 2020, to fit the schedule for the final draft of the SRH before use in the CBT version. EOPD-414 would appreciate review by practitioners and faculty, keeping in mind that this is not a comprehensive book of all things related to ag/bio engineering. This document focuses on the needs of a minimally competent engineer with about four years' experience looking to pass the ag/bio PE exam, which has questions developed according to the [exam specification](#).

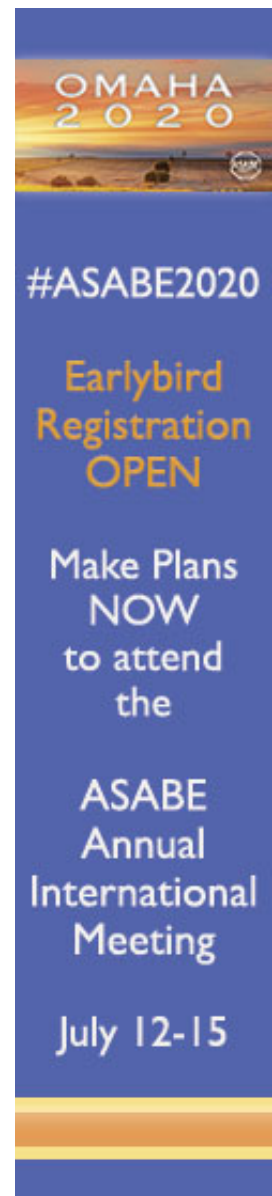
Thank you for helping make this document a helpful tool for exam candidates and those working in the discipline of ag/bio engineering.

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NCEES Seeking PE Exam Survey Participants

The deadline for participating in the PE Exam survey has been extended. If you're a licensed professional engineer with four to six years' current experience in agricultural or biological engineering, we encourage you to complete the 40-minute survey. You'll be contributing to the ASABE mission of promoting the ag and bio discipline and advancing career development opportunities.

The results will be used to update specifications for the exam, used throughout the



United States for licensing purposes. A cross section of licensed professional engineers practicing agricultural and biological engineering is required—including those working in industry, consulting, the public sector, and academia.

Access and complete [the survey](#) by April 26, 2020.

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ITSC Paper Awards - Deadline April 20

The Information Technology, Sensors, & Control Systems (ITSC) technical community sponsors annual paper awards presented at the Annual International Meeting. This award promotes the development and presentation of high-quality ITSC papers. Award-winning papers will be selected by the ITSC technical community from paper proposals that were submitted for the 2020 annual international meeting, in Omaha.

See the [template and instructions](#) for full details, and note the submission deadline of April 20.

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Committee Highlight: ASE-134 Fertilizers, Soil Conditioners, and Beneficial Substances

You might be surprised by the breadth of scope that ASABE technical committees cover. In upcoming issues of Inside ASABE, we plan to periodically highlight some of these committees, to give their work some well-deserved exposure. Want to get involved in technical activities, like standards development? ASABE [technical committees](#) welcome participation.

Housed within the Applied Science and Engineering technical community, ASE-134 focuses on fertilizers and soil conditioners, and most recently the committee officially added beneficial substances, including biostimulants, to their scope.

ASE-134 serves as the US advisory committee to ISO/TC 134, coordinating US input on relevant international standards. Currently ISO/TC 134 maintains fifty published standards and has ten standards under development, many of which cover sampling and testing of internationally used and traded products. The work of ISO/TC 134 is coordinated internationally by Iran. In the US, ASABE works closely with The Fertilizer Institute, who provides financial support for this activity.

Interested in learning more about ASE-134? Please contact [Walter Brace](#).

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What's Planned for Omaha?



Take a peek at some of the [events](#) being planned for the 2020 AIM here. All of the events listed that require advanced registration are now available to add

to your AIM registration. If you have already registered you can use the modify button in your emailed confirmation to access. Don't wait until you get to Omaha to add these. Lack of registrations may cancel an event, others might fill up without you! #ASABE2020

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Your own
worst enemy?

What's
getting in the
way of your
productivity
(and
well-being)?



Read

Sue Nokes's
practical advice
in the current
issue of
RESOURCE
magazine

Wisconsin Section Names Award Winners

A canceled meeting won't stop the Wisconsin section from highlighting the achievements and accolades of their members. Daniel Flick, Wisconsin section awards chair took to the ASABE Forums to share the announcement of this year's award winners. Formal acknowledgment will take place at a future section-sanctioned event; however, student awards, with graduation likely precluding students' ability to attend, have already been presented.

Please join the Wisconsin section in congratulating the following individuals for their respective awards:

Brian Luck (shown at left in photos below) for receiving the Young Engineer Achievement award. Luck is an assistant professor and extension specialist at UW-Madison in the biological systems engineering department. His work has focused on the development and implementation of data acquisition and control systems for crop and animal production systems.

Kevin Shinnars, recipient of the Career Achievement award. Shinnars is a professor at UW-Madison in the Biological Systems Engineering Department as well as an adjunct professor in the mechanical engineering department. His work has focused on a variety of technical areas relating to forage and biomass harvesting, processing, transport, and storage.

The late **Larry R. Johnson** for receiving the Wayne G. Russel Award. Johnson finished his career as the owner of and principal consulting engineer for Oakwood Engineering LLC. He was a professional engineer with expertise in the manufacturing, engineering, business, and legal areas of major equipment manufacturers. He was very involved in product safety programs and standards development and was involved in developing standards for ANSI, ASABE, ISO, and CE.



Parker Williams (photo left), recipient of the Biological Systems Engineering Graduate-Student of the Year award. Williams is a master's student in the UW-Madison biological systems engineering department. Under the guidance of Brian Luck, Williams is studying the correlation between compaction and UAV vegetative indices to predict forage quality loss due to machinery wheel traffic.

Laura Rodriguez Alvarez (photo right) for receiving the Biological Systems Engineering

Student of the Year award. Alvarez is an undergraduate student in the biological systems engineering department with an emphasis on natural resources and environmental engineering.



Congratulations to the 2020 Wisconsin section award winners. [Learn more](#) about the Wisconsin section and view newsletters.

If you're interested in highlighting and sharing news and honors from other ASABE sections, contact [Jasper Cunningham](#).

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Student Honor Awards - Entries Due April 20

Each student engineering branch and student mechanization branch may elect one student branch member to receive the Student Honor Award. This award recognizes scholarship, activity in student branch affairs, and extracurricular and

national student activities, emphasizing the importance of maintaining the goodwill and respect of associates.

Score sheets and winning student names must be received at ASABE headquarters by April 20. Complete details are available on the [Student Honor Award](#) page.

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Use DOI When Referencing Articles in Our Library

The DOI number is the best way to share and link to an article in our library. When ASABE changes web servers, the DOI will continue to point to the new location. For example, the URL <https://doi.org/10.13031/2013.42256> will redirect users to the correct location of the article in our library.

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Global Evapotranspiration Symposium Postponed

The 2nd ASABE Global Evapotranspiration Symposium: Advances, Challenges and Future Needs in Measurements, Modeling, and Applications at Various Scales, taking place in Nanking, China, has been postponed from its original date of October 2020. Please watch for [updated details](#).

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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.

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ORCID for Authors

We encourage journal authors to obtain a unique [digital identifier](#) from ORCID. This ID can be entered into ScholarOne when you submit your manuscript to a journal. It will uniquely identify you and provide a better means of linking you to your work. This ID can also be used to login to ScholarOne.

See the [ScholarOne guide](#) for details.

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New Journal Article Types

New [article types](#) were added for our journals, including editorial, perspective, and frontier. We continue to publish review articles. The full-text articles are now named *research articles* and the former *technical notes* are now called *research briefs*.

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Kisaalita Named AAAS Fellow

William Kisaalita has been named a Fellow of the American Association for the Advancement of Science (AAAS). The honor is presented to AAAS members by their peers for scientifically or socially distinguished efforts to advance science or its applications. He was formally recognized at the AAAS Fellows Forum during the organization's annual meeting, in February.

Kisaalita was honored for his contributions to the field of development engineering, particularly in the use of human-centered design for the creation of technology-based interventions for low-resource settings. Kisaalita's research has led to the creation of three devices in commercial use, including a biofuel-powered cooler to keep milk fresh and safe to drink in areas without electricity, such as sub-Saharan Africa.

"I am deeply humbled by this recognition by my peers. However, I should mention that these contributions would not be possible without the many graduate and undergraduate students I have worked with over the years – this is their recognition as well," said Kisaalita. "I am excited and look forward to continued inquiry, creation, and service toward solutions to problems from a large segment of our global population earning less than \$5 per day."

"Dr. Kisaalita is a perfect example of how engineers positively impact the world by searching for solutions to our greatest challenges," said Donald Leo, dean of the UGA College of Engineering, where Kisaalita teaches. "He is an excellent teacher, a dedicated mentor, and a creative researcher. I join the entire college in congratulating William on this well-deserved honor."

Kisaalita, a Georgia Athletic Association Distinguished Professor of Engineering, teaches both undergraduate and graduate-level courses in the College of Engineering. He has received several awards for his teaching, research, and service including the UGA President's Fulfilling the Dream Award (2016), the Lioba Moshi Award for Service in African Studies (2015), the UGA College of Engineering Distinguished Faculty Scholar Award (2015), the UGA College of Engineering Excellence in Instruction Award (2014), the USAID Powering Agriculture Award (2013), and the UGA Scholarship of Engagement Award (2008). He was named University Mentor of the Year for Undergraduate Research in 2004. Along with his teaching and research responsibilities, Kisaalita has served as the associate director of UGA's Center for Undergraduate Research Opportunities and he is a faculty mentor for students in the Peach State Louis Stokes Alliance for Minority Participation.

Kisaalita received his PhD in chemical engineering from the University of British Columbia and a BS in mechanical engineering from Makerere University in Kampala, Uganda.

Kisaalita is an 18-year member of ASABE.

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In Memoriam - Ken Domier



Ken Domier of Edmonton, Alberta, passed away peacefully at the age of 86 on March 7.

Domier was born on August 30, 1933, near Norquay, Saskatchewan. He earned his BSc and MSc degrees in agricultural engineering from the University of Saskatchewan in 1955 and 1957, respectively, and his PhD from Michigan State University in 1967. After some years of teaching at the University of Manitoba, Domier moved his family in 1969 to

Edmonton, Alberta, to take a position as the chair of the agricultural engineering department at the University of Alberta. His research interests included crop residue utilization (flax, wheat, etc.), agricultural tractors and machinery, seedbed

preparation and tillage, and fertilizer placement. He retired at age 60, becoming a professor emeritus in the Faculty of Agricultural, Life & Environmental Sciences at the University of Alberta. He was a Fellow of Engineers Canada, CSBE/SCGAB, and ASABE and an Honorary Fellow of Geoscientists Canada.

Domier was a very active member of CSBE/SCGAB. He served as President from 1971 to 1972. In 1989, he was awarded the CSBE/SCGAB Maple Leaf Award, given to honor members of the Society who have distinguished themselves as leaders in the profession. It is the highest award made by the Society in recognition of leadership in the profession. He served on a number of ASABE committees, including membership on the joint Canadian/American standards committee on farm machinery.

In his retirement, Domier had a strong and lengthy interest in all things Scandinavian. He was awarded the Sankt Olav's medal by His Majesty King Harald V of Norway in 2019 for his "important contributions in serving Norway's interest and growing the relations between Canada and Norway in the Province of Alberta." He held a variety of offices in the Solglyt Lodge of the Sons of Norway and was a supporter and active member of the Scandinavian Studies Association since its founding in 1990, having served on the board as vice-president and president.

Domier was a member of ASABE for 41 years.

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In Memoriam - Ernest Avery Johnson

Ernest (Ernie) Avery Johnson, 89, passed away October 19, 2019, at his home, in Helvetia, Oregon.

Born and raised in Petersham, Mass., Johnson attended the University of Massachusetts (UMass), Amherst, where he obtained a degree in agricultural engineering in 1953. While at UMass, he met his future wife, Claire Magee, and the couple were married October 10, 1953. He furthered his studies at Purdue University, completing his master's degree in 1959. He then moved back to Massachusetts, eventually settling in Conway, in 1966. Johnson was an educator for the University of Massachusetts at Amherst, teaching and advising graduate students, and was associate professor of agricultural engineering at the time of his retirement from UMass, about 1990. He later worked as a researcher for Natick Army Labs and taught summer schools at Stockbridge School of Agriculture. He remained involved in ASABE and was a Society member for 66 years.

Johnson was private pilot and enjoyed traveling, on the road and in the air, with his wife. They visited many places throughout the continental United States and Canada. He also enjoyed farming and raising beef cattle, and other hobbies included reading, listening to classical music, woodworking, and working on tractors and cars. After moving to Oregon, he cultivated a passion for ham radio, becoming an extra class license holder. He was very active in both the Amateur Radio Emergency Service (ARES) and the amateur radio National Traffic System. He was an assistant emergency coordinator for Washington County ARES for many years. He was a mentor to all and had many ham friends in Oregon.

Johnson was preceded in death by his son Franklin, his sister Harriett Warrington, and his parents. He is survived by his loving wife Claire, daughter Elizabeth and son-in-law Paul Thutt, daughter Dana, and his grandson Neil Thutt.

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Recent Standards Activities

New Revisions

- ANSI/ASAE S572.3 FEB2020, Spray Nozzle Classification by Droplet Spectra

Standard Withdrawn

- SAE J167 202002, Overhead Protection for Agricultural Tractors - Test Procedures and Performance Requirements (Canceled by SAE Feb 2020)

Press Releases

- February 27, 2020, ASABE to Revise Standard on animal Mortality Composting, Participation Sought
- February 28, 2020, ASABE Publishes Updated Spray Nozzle Classification Standard

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