



Inside ASABE

News for and about ASABE members

October 28, 2019

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Join us in
welcoming
our most recent

NEW
MEMBERS

September
2019

Click

From the Executive Director



Inspiring! That's my one-word description for the [November/December issue of *Resource* magazine](#). Guest editors Tony Grift and Nicki Engeseth have brought together a memorable and stimulating issue with the theme of Nourish the Planet. Dr. Engeseth rightly notes that it's "our collective responsibility to produce nutritious foods that are acceptable and available to people of varying cultures and socioeconomic levels. No matter how innovative, nutritious, or affordable it may be, a food product will not be consumed if it doesn't appeal to people." Meeting these goals, as well as regenerating the planet's natural resources, is a huge challenge that requires food scientists, nutritionists, and of course engineers from multiple disciplines, all working together. Fortunately, working together is something we ABEs do well! I hope you enjoy the Nourish the Planet issue as much as I did.

Students, take note of the asaBE INSPIRED video challenge, sponsored by CLAAS. Create a one-minute selfie video to illustrate what inspires you to be an agricultural or biological engineer. The top prize is \$1500, and there will be three runner-up prizes of \$1000, \$500, and \$300. [Learn more here](#).

If you are considering nominating someone for an ASABE major award, and you need a deadline, your timing is perfect. You have until October 31 to complete the

process. The electronic submission is quick and easy, but first you'll need to gather the required background materials. [Click here](#) for more information.

Darrin J. Drollinger
Executive Director

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AETC 2020 Registration Now Open!



Registration is now open for ASABE's Agricultural Equipment Technology Conference, now in its 24th year. We're heading to the Hyatt Regency in downtown Louisville February 10-12, 2020.

Find more details, including program information and sponsorship opportunities, [here](#).

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Authors: Webinar on the Journal Publication Process

Are you considering submitting a paper to an ASABE journal? Register is now open for a valuable webinar that will help you navigate the system and underscore the many benefits of publishing with ASABE.

Hosted by Garey Fox, ASABE editor in chief, "Navigating the Publication Process: An ASABE Journals Perspective" will take place November 12, at 3 pm eastern time.

Learn more [here](#).

Get your questions ready by reading the related journal article, "[Navigating the Publication Process: An ASABE Journals Perspective](#)."

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Energy Conference Planning Underway



President Sue Nokes led a planning expedition to Costa Rica in preparation for the 2021 ASABE Energy Security Conference. Energy security is the third themed event as part of the [Global Engagement Initiative](#) begun with the global engagement day held in 2014. Nokes (at center, red sweater) and the team stop for a picture while visiting the University of Costa Rica.

Watch for upcoming details on the Energy Security Conference.

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asABE INSPIRED - The One-Minute Video Challenge for ASABE Undergrads

ASABE Undergrads. . . ASABE and Claas want to know What inspires YOU?

Do you aim to do a world of good with your degree? Make a difference? Shape the future? Thanks to generous support from Claas, ASABE is pleased to offer to you a fun, easy-to-enter video challenge for 2020. Cash prizes up to \$1500!

Find more information online: www.asabe.org/Belnspired





Deadline for entry: December 14.

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Nye Graduate Fellowships Announced

ASABE is pleased to announce the 2019 John C. Nye Graduate Fellowship recipients:

- Gabriel Abdulai, PhD candidate, University of Kentucky.
- Stephanie Herbstritt, PhD candidate, Pennsylvania State University

Because of the very high volume of applications received and a very generous anonymous donor, the selection committee chose two recipients to honor this first year. Each recipient receives a \$1,500 scholarship to be used to support their ongoing pursuit of a doctorate degree.

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ASABE Tractor History Books Available on Amazon

It's not too early to think about Christmas shopping—how about a unique gift from our [Amazon store](#)? Order quickly and easily with Prime shipping.

Can't find what you're looking for? Call us at 800-695-2723.

Available Titles

A Century of Ford and New Holland Farm Equipment
A Guide to Allis Chalmers Farm Tractors
A Guide to Ford, Fordson and NH Tractors 1907-1999
A Guide to Hart-Parr, Oliver, and White Farm Tractors, 1901-1996
A Tractor Goes Farming
Agricultural Tractor 1855-1950
Cockshutt: The Complete Story
Designing the New Generation John Deere Tractors
Farm Tractors 1950-1975
Full Steam Ahead
Grandpa's John Deere Tractors
How John Deere Tractors & Implements Work
JI Case Agricultural & Construction Equipment 1956-1994, Vol. 2
The Proud Heritage of AGCO Tractors

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New Faces of ASABE: 2020 Nominations Open!

Nominations are now open for [2020 New Faces of ASABE](#), the outreach program that recognizes the outstanding talents and passions of the rising generation of engineering leaders, whose work is already having significant impact on public welfare around the globe.

The program has two categories: College Edition, for undergraduates, and Professionals, for engineering graduates 35 years of age and younger. ASABE offers its College Edition winner a \$1000 scholarship, while the winner in the Professionals category is invited to travel to Washington, DC, to represent ASABE at Engineers Week activities. Click [here](#) to read about each category and download a nomination form.

Deadline for entry: December 16.

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Abstracts Now Welcome for Annual International Meeting; Irrigation, Erosion Symposia Submissions Continue

The 2020 Annual International Meeting's call for abstracts is now open. Organizers are planning some very special events for the 2020 AIM, so plan to join us in Omaha and don't wait until the last minute to submit your abstract! Find the submission portal [here](#), and bookmark www.asabemeetings.org to see details of the meeting as they become available.

In other ASABE Meetings news. . .

- EXTENDED! Until November 4, 2019 is the deadline for the 6th Decennial National Irrigation Symposium. This event will be held in San Antonio, Texas November 30-December 4, 2020 during the 2020 Irrigation Show. More [here](#).
- The 2021 [Soil Erosion Research Symposium](#) will be held in Puerto Rico January 10-15, 2021. February 15, 2020, will be the last day to submit your 400- to 600-word abstract.

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Support Your Humanitarian Project with a Giving Back Fund Award

Do you have a humanitarian project that could benefit from financial support? The Giving Back Fund can help.

The fund exists to showcase the knowledge and skills of the agricultural and biological engineering profession through projects that benefit underserved individuals or groups. Past fund recipients include the Purdue PUP vehicle project, and a Village Harvest Center, in Laos. An ASABE Foundation fund, the Giving Back Fund has money available annually to support one or more projects. Submissions are due to ASABE headquarters by December 31 of each year. Visit the [website](#) for complete details.

Like the concept of the Giving Back Fund? Giving Back projects are underwritten by the ASABE Foundation, and donations are strongly encouraged so that more projects may receive financial support. Donors will be asked to designate what portion of their contribution is to be used in the year given, and which portion is to be placed in the endowed fund, from which the future earnings can be used to support projects.

Contact [Dolores Landeck](#) for additional information.

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ASABE Technical Library - One of Your Most Valuable Member Benefits

Want to stay up to date on the latest research, technology, and best practices? Of course, you do. And that's what makes the Technical Library an indispensable benefit of membership.

Take note of the following to make the most of your access:

- Check out www.asabe.org/TechnicalLibraryHelp on how to use Google to search the Technical Library.
- Your annual membership in ASABE provides you with credits for five standards and 100 other full downloads from elibrary.asabe.org.
- The DOI number is the best way to share and link to an article in our library. If ASABE were to change web servers, the DOI will continue to point to the new location. For example, the URL <https://doi.org/10.13031/trans.59.11347> will redirect users to the current location of the article in our library.

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ASABE Journals: Public Access, Open Access

Did you know. . .

Certain ASABE journal articles are now marked for public access, some for a limited time, in the [Technical Library](#). These recent articles include the introduction to a special collection, as well as other articles in the same collection. Such articles may be downloaded without a site license but may not be posted to other websites, except as allowed by our copyright policy.

Open access offers wider access privileges and is usually obtained, for a fee, by the author. See the [copyright form](#) for more information on securing open access for any articles you might be considering for publications ASABE journals.

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Last Call for Major Awards Nominations

The Major Awards nominations deadline is quickly approaching! Please submit your nominations for all major awards by October 31.

For more details and a complete list of ASABE Major Awards, please visit www.asabe.org/Awards-Competitions/Major-Awards.

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Poster Presentation Winners Announced

Congratulations to all of the finalists of the ASABE Student Oral/Poster Presentation Competition, held in Boston at the Annual International Meeting. The winners, listed below with the title of their presentations, each received a \$250 prize.

For more information on the competition, please visit our [website](#).

ASE and EOPD Communities Combined Competition

- Qualla Ketchum, "Bringing Indigeneity to the BSE Classroom"
- Karim Shahin, "Sustainable Treatment for High Iron Concentration in Groundwater for Irrigation Purposes"
- Luis Huezo, "Hydrochar from sewage sludge and manure as soil amendment"

ES and ESH Communities Combined Competition

- Chi Hsu, "Development of an Ergonomic Evaluation System based on Inertial Measurement Unit and its Application for Exoskeleton Load Reduction"
- Dajun Yu, "Production of 2,3-Butanediol from Food Waste Using *Bacillus licheniformis* YNP5-TSU from Yellowstone National Park"
- Ryan Kalinsoki, "Antimicrobial Properties of Lignin Derivatives from Thermochemical Depolymerization"

ITSC Community Competition

- Jason Cousins, "Fast Gas-Solid Flow Simulation for Control of the Pneumatic Conveying System on Air Seeders"
- Daoyuan Yang, "Enhancement of alcohol oxidase and alcohol oxidase biosensors using high hydrostatic pressure"
- Max Treiber, "Sensor systems in German dairy farming – Aspects of hardware design and sustainability"
- Dan Jeric Rustia, "Online unsupervised training technique for a multi-class insect identification algorithm on sticky paper trap images"

MS Community Competition

- Patrick Hennessy, "Object Detection with Convolutional Neural Networks for Real-Time Weed Identification in Wild Blueberry Fields"
- David Mabie, "Pressure Drop during Hops Drying in Nebraska Grown Hops"
- Karen Esau, "Optimum Cleaning Brush Parameters for Effective Debris Removal on Commercial Mechanical Wild Blueberry Harvesters"

NRES Community Competition

- Mary Foltz, "Influence of cover cropping on year-round measured and modeled N₂O emissions"
- Kyle Cheung, "Identification of Drought Stress in Turfgrass Using Multispectral and Hyperspectral Remote Sensing"
- Emine Fidan, "Using Machine Learning and Remotely Sensed Data to Develop Spatiotemporal Maps of Flood Surge and Retreat"
- Mahmoud Shehata, "A Novel Fiber-Optic Dual-Probe Heat Pulse Technique to Measure Soil Thermal Properties and Moisture Content Over a Wide Range of Spatial Scales"
- Mara Zelt, "Antimicrobial resistance in beef feedlot manure as impacted by forage concentration and essential oil in finishing cattle diets"
- Mikela Pryor, "A Meta-Analysis of Water Quality Studies in the Ochlockonee River Basin"
- Laxmi Prasad, "Effects of Tillage and Manure Type on Nitrogen and Phosphorus Losses through Surface Runoff from Winter Manure Application"
- Laljeet Sangha, "Use of ENSO Forecasts to Withdraw Water Sustainably from Streams from Irrigation"

PAFS Community Competition

- David Leroux, "Canadian Integrative Northern Greenhouse (CING) : Testing results and future opportunities"
- Staci McGill, "Air speed to increase rate of cool out for horses after intense exercise"

- Benjamin Smith, "Infrared Proximity Sow Posture Measurement System Development and Validation"

PRS Community Competition

- Shuang Zhang, "Computer simulation analyses of improving radio frequency (RF) heating uniformity in peanuts for pasteurization"
- Deandrae Smith, "Impact of Energy Dissipation Rate of a 915 MHz Microwave on Drying and Milling Characteristics of Parboiled Rice"
- Felix Akharume, "Numerical Simulations and Experimental Validation Study of a Mixed-mode Solar Dryer for Cocoa Beans"
- Abass Oduola, "Impact of Selected Infrared Wavelengths on Inactivation of Microbes on Rough Rice"

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Arkansas Section Hosts 56th Annual Meeting



A great student turnout marked the 56th annual meeting of the Arkansas section, held on October 4 at Arkansas State University. "Feeding the World: Contributions from

the Arkansas Delta" provided the theme for three presentations, in addition to a student poster contest, and tours of Frito-Lay and the processing facility at Post Consumer Brands.

ASABE member Tom Costello was recognized as the Outstanding Engineer of the Year.

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Past President Scott Honored by Shanghai



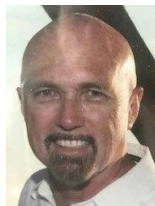
ASABE Fellow and Past President Norm Scott was presented a Magnolia Silver award by the municipality of Shanghai last month.

Scott was among 58 people from 18 countries and regions who were recognized for their significant contributions to Shanghai's development.

Those honored included senior managers of companies, such as adidas, L'Oréal China, Schaeffler Group, and Dassault Systèmes, as well as scientists, artists, educators, and a football coach.

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Rein Named NIFA Science Liaison



Bradley Rein is among six individuals who have been named NIFA National Science Liaisons. Rein will have responsibility for topics related to sustainable agricultural systems, technology, economics, and social sciences.

National Science Liaisons will be based in Washington, DC, and, according to NIFA, will ensure that the agency's program portfolio and contact with "stakeholders, partners, and collaborators will continue, uninterrupted." The liaisons will support the agency's national research, education, and extension portfolio; advance NIFA programs; and serve as expert resources.

Prior to his National Science Liaison position, Rein served as acting deputy director for the Institute of Food and Agriculture. He recently served as division director of agricultural systems with responsibility for the Agriculture and Food Research Initiative foundation programs in agricultural systems and technology and agricultural economics and rural communities, the Beginning Farmer and Rancher, Sustainable Agricultural Research and Education, AgrAbility, and Youth Farm Safety programs. Rein has served as a United Nations–recruited technical advisor

to the Peoples Republic of China on biofuels research and an Embassy Science Fellow to Jamaica on development of their National Biofuels Policy.

Prior to joining USDA in 1989 as a national program leader, Rein held a faculty position as the extension specialist in engineering at the University of Arizona. He is a registered professional engineer, a 40-year member of ASABE, and a past president of the International Society of Agricultural Safety and Health.

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In Memoriam - John B. Solie



John Bruce Solie, one of three children of Bruce and Mary Elizabeth (Matthews) Solie, was born June 26, 1946 in Madison, Wisc. His family moved to Wheaton, Md., where John attended school and graduated from high school. He earned his bachelor's degree from the University of Maryland, his Juris Doctor degree from Creighton Law School, and PHD in Agricultural Engineering from the University of Nebraska in Lincoln.

On December 30, 1972 John was united in marriage to Lou Hayes at the Peru Community Church in Peru, Nebr. The couple first lived on a farm in rural Nemaha County before moving to Lincoln, Nebr., while Solie attended school. They then moved to Stillwater, Okla., where John was a professor at Oklahoma State University for 28 years. Their union was blessed with two daughters, Amanda and Deborah.

In addition to his teaching at OSU, Solie's research resulted in many advances in agriculture. He received the prestigious USDA Secretary of Agriculture's Honor award and was invited to speak to the National Research Council at the National Academy of Science. An ASABE Fellow, Solie was recipient of the 2013 Cyrus Hall McCormick Jerome Increase Case Gold Medal Award for distinguished leadership and exceptional engineering achievements. At the time of his retirement from the university, he was regents professor emeritus and Sarkeys distinguished professor emeritus. John and Lou moved to Brownville, Nebr., in 2013.

Besides being a member of ASABE, Solie was a previous member of the Stillwater First Baptist Church and a current member of the Brownville Christian Church. He was a member of the Peru Masonic Lodge and Eastern Star and served on the Board of the Brownville Historical Society. He loved to ride his bike around Brownville and on the Steamboat Trace Trail. Another pastime was working with wood. His love of farming was developed while helping his grandpa while a young man.

Solie's health declined in recent months, and he was able to remain at his home with the help of Lou and other family members. It was at his home in Brownville, with family around him, that he passed away on Thursday, September 26, 2019.

Solie is lovingly remembered by his wife, Lou, of Brownville; daughters and son-in-law Amanda and Caleb Stone, of Chandler, Okla.; Deborah Solie of Brownville; grandchildren Seth, Jared, and Ethan Stone; sisters and brothers-in-law Susan and Rick Wachtler of The Woodlands, Tex.; Nancy Solie and Paul Logue of Jefferson, Ga.; sisters-in-law Sherry Warrick of Omaha; Kay (Paul) Fish of Brownville; brother-in-law Marty (Allison) Hayes of Brownville; many nieces, nephews, other relatives and many friends. He was preceded in death by his parents Bruce and Mary and parents-in-law Tom and Delphine Hayes.

Memorials may be made to the John B. Solie Scholarship in Biosystems and Agricultural Engineering: Donate [online](#), or send checks to the Oklahoma State University Foundation, 400 S Monroe, Stillwater, OK 74074, designating Fund #21-66650 (Solie Scholarship).

Solie was a 40-year ASABE member and a Fellow of the Society.

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Recent Standards Activities

New Standard

- ASABE/ISO 20383:2017 OCT2019, Tractors and machinery for agriculture and forestry - Speed Identification Sign (SIS)

New Revisions

- ANSI/ASAE S279.18 OCT2019, Lighting and Marking of Agricultural Equipment on Highways
- ASAE S292.6 SEP2019, Uniform Terminology for Agricultural Waste and By-Product Management

Standard Withdrawn

- ANSI/ASAE S584.3 JAN2013 (R2017), Agricultural Equipment: Speed Identification Symbol (SIS)

Press Releases

- October 21, 2019, ASABE Completes Two Agricultural Equipment Lighting Standards Projects

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