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November 2021

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From the Executive Director



President Paul Heinemann, President-Elect Keith Tinsey, and immediate Past-President Candi Engler took a break during the recent Board of Trustees meeting for a picture with ASABE Foundation member and Vermeer employee Lee Roose and the newest ASABE Historic Landmark plaque, which recognizes the [Vermeer Large Round Baler](#). This is ASABE's 60th Historic Landmark and commemorates the breakthrough invention by Gary Vermeer. Vermeer introduced a working prototype in March of 1971. That prototype led to the first commercially successful large round baler and fundamentally changed the way hay is baled.

It's Giving Tuesday time, and if your philanthropic plans include the ASABE Foundation (and

underway to support ASABE's student competitions. The goal is to equalize the prize money that each competition can offer and to raise money to support new efforts, such as the bioprocess engineering competition in which students pitch their business plans (think of it as ASABE's version of "Shark Tank"). Read more below, watch your email, or visit the ASABE website for more information on opportunities for [Giving Tuesday](#).

Darrin J. Drollinger
Executive Director

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ASABE Annual International Meeting

2022 Annual International Meeting

July 17-20
Marquis Marriott, Houston

Call for Abstracts is Open

Scroll to the article below for details on submitting an abstract.

ASABE Events at a Glance

December 6-10, 2021

[6th Decennial National Irrigation Symposium](#)
San Diego, California

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](#)

ASABEtheChange—Double Your Impact on Giving Tuesday!

"Giving is not just about making a donation. It is about making a difference." – Kathy Calvin.

As we enter into this season of thanks, we count our blessings, and reflect upon all the things for which we are thankful.

The ASABE Foundation, fueled by passion for our mission and inspired by the generous hearts of each of you has committed to doubling every donation you make to help us #ASABEtheChange on Giving Tuesday. Every donation made to ASABE on November 30,



Now more than ever
we are called to
make a difference.

#GivingTuesday | Nov 30, 2021

Your gift will inspire future generations to create a sustainable world by funding student competitions, and providing programs, scholarships, and publications for agricultural and biological engineers and ABE students globally.

You can #ASABEtheChange! Please join us by making a donation on November 30. THANK YOU for paving the way for a sustainable future for our world.

- Learn more about [#ASABEtheCHANGE here](#)
- Click [HERE to double your impact](#) on November 30, 2021

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Vermeer Round Baler Now an ASABE Historic Landmark



At the Iowa section meeting last month, a new ASABE historic landmark was dedicated at Vermeer headquarters in Pella, Iowa. This landmark commemorates the development of the first large round baler, by Vermeer, in 1971.

Prior to 1971, most hay was harvested in small square bales, which required extensive manual labor to harvest, store, and feed. Because of high demands for labor, this system of hay harvesting had

become a significant limitation to the livestock industry. To address this constraint, in January 1971 Gary Vermeer began the design and development of the first commercially successful large round baler in his shop in Pella, Iowa. By March 1971, the first prototype baler was completed. It produced a 6-ft-wide by 7-ft-diameter bale that could weigh up to 2000 lbs. The baler consisted of a steel tine pick-up unit that fed the hay into a hydraulically tensioned rolling belt chamber. The chamber expanded as more hay was fed in. The hay was compressed by the belts on the outside of the rolling bale. When the bale reached its' full size, twine would be wrapped around the periphery of the bale prior to being discharged (ejected) from the chamber.

While the dedication took place at the Iowa section meeting, the plaque, unavailable at the time, was formally presented to Vermeer representative Lee Roose, shown at right in the photo above, at the recent ASABE Board of Trustees meeting, held in Chicago. On hand to make the presentation were, from left, President Paul Heinemann, President-Elect Keith Tinsey, and Past President Candice Engler.

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Giving Back Fund Accepting Applications

ASABE members have servants' hearts and can often be found sharing their engineering expertise with vulnerable communities. You may have read about one such project—an urban garden in St. Paul, Minn.—featured recently [in Resource](#).

If you are engaged in or considering a humanitarian engineering project that could benefit from financial support, the [Giving Back](#) fund can help. The fund exists to showcase the



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.

Contact [Dolores Landeck](#) for additional

information.

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Nominate Now for IDEA Award

Nominations continue for ASABE's newest major award, the ASABE IDEA (Inclusion, Diversity, Equity, and Access) award.

This award will recognize ASABE members who have made significant improvements to inclusion, diversity, equity and access for under-represented groups. Individuals and groups of individuals are eligible for award consideration. Just for this inaugural year, nominations for the new award will be accepted until December 31.

For more information including nomination instructions, visit our [webpage](#).

This award is generously endowed by Robert and Yvonne Gustafson.

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Undergrads Join at No Cost Through 2022



Do you know an undergraduate student interested in agricultural or biological engineering or related fields, including ag technology and systems management? Thanks to Board action, and an assist from CNH Industrial, we're making it easier than ever to recruit students to the preferred engineering society for technical professionals in agricultural, food, and biological systems.

Recognizing that online, distance, and hybrid learning during a global pandemic has had an impact on undergraduate student engagement within the Society, the ASABE Board of Trustees has voted to make undergraduate student membership free for 2022. This is a vital step in advancing the Society goal of cultivating a diverse, thriving, and engaged membership. This free membership offer is available for all undergraduate students throughout the world. An eligible student can sign up [online](#) from now until December, 31, 2022. Because of increased volume, onboarding time may be delayed.

Contact [Jasper Cunningham](#) with membership questions.

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Develop Bioprocess-Startup Ideas

We're pleased to announce ASABE's new Bioprocess Startup Competition, launching in 2022. This innovative competition invites teams of students to develop a new product or process that utilizes a unique biological resource associated with the state of Texas.

Students will design a product or process, conduct any necessary experimentation, testing, and modeling, and write a brief report describing their design and marketing of the product or process; a physical prototype is not required for competition. Student teams will pitch their ideas to a group of industry representatives serving as judges in a simulated "shark tank" format at the ASABE Annual International Meeting.

For competition guidelines, entry deadlines, and all requirements, visit the [competition website](#).

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Time to Renew! Enjoy Uninterrupted Access to Benefits

As 2022 quickly approaches, remember to [renew your dues](#) by December 31.

Your ASABE membership provides the opportunity to:

- [Learn and advance](#) your working knowledge of ag, bio, and food systems engineering
- [Find your fit](#) among more than 200 member-led committees
- [Meet and network](#) with more than 6500 industry professionals
- And [help promote](#) the ag and bio engineering profession

For questions related to membership contact [Jasper Cunningham](#).

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YPC News and Events

Thursday, December 16, 7 pm (eastern)

YPC Holiday Social—Trivia

Wear a festive outfit, grab your favorite drinks/snacks, and join in for some trivia!

[Advance registration](#)

After registering, you will receive a confirmation email containing information about joining the meeting.

Thursday, January 27, 8 pm (eastern)

YPC Graduate Student Social—Escape Room

Join the YPC to socialize and participate in an escape-room activity. We look forward to seeing you!

[Advance registration](#)

After registering, you will receive a confirmation email containing information about joining the meeting.

Graduate Student Feedback

As part of ASABE, the Graduate Student Task Force within the Young Professionals Community Executive Team is looking to collect some information on Society involvement of graduate students among the affiliated academic programs at the various institutions. The goal of this initiative is to better understand the current level of involvement and leverage the collected data to establish a plan for increasing the overall grad-student engagement in the Society. Your responses would be very much appreciated!

Follow [this link](#) to participate in the survey. Questions? Contact [Sara Weyer](#) or [Bailey](#).

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Member Hour TFACS Series Extended

By popular demand, the Member Hour series focused on Transforming Food and Agriculture to Circular Systems has been extended with two additional sessions.

Thursday, December 2, 1:00–2:00 (eastern)

Farm Scale Circular Systems

[Learn more and register](#)

Thursday, December 9, 2:00–3:00 (eastern)

Uniting the Food and Agriculture Value Chain to Reduce Environmental Impacts of Crop Production

[Learn more and register](#)

Previous recordings of archived sessions are available for viewing here.

Contact [Jasper Cunningham](#) with questions.

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Foundation Boosts Scholarship Amounts

The ASABE Foundation is pleased to announce that the Nye Graduate Fellowship, Adams Scholarship, and Foundation Engineering Scholarship amounts have been increased to \$2,000 scholarships annually. Entry deadline for all scholarships is March 15. Applicants must be ASABE student members.

For more details on eligibility, please visit the scholarship websites:

[John C. Nye Graduate Fellowship](#)

[William J. Adams Jr. and Marijane E. Adams Scholarship](#)

[ASABE Foundation Engineering Scholarship](#)

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AIM 2022: See You in Houston!



July 17-20
Marriott Marquis, Houston,
Texas

Join us as we gather in person this July in Houston, Texas. Share your expertise, professional insights, and industry best practices by becoming a presenter. Interact with the industry's best and brightest engineers and engineering students while

sharing your knowledge.

Check out the complete [list of sessions](#). Answer the call for abstracts today and help advance, promote, and educate your profession! Click [here](#) to submit your abstract. The deadline for submission is Wednesday, January 5, 2022. Submitting an abstract indicates

Questions should be directed to [Jessica Bell](#).

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ASABE Publications Honors Award Winners

The articles published by ASABE in its three peer-reviewed journals during 2020 are eligible for 2021 [Superior Paper Awards](#). Each Technical Community selects up to 5% of the papers published by their community for paper awards based on the article's timeliness, fundamental value, originality, and benefits to society, as well as for the quality of writing. Winning paper award authors are presented with a certificate at the Annual International Meeting.

The ASABE peer-review process would not be possible without the participation of the reviewers who volunteer their time. In a typical year, we have over 900 reviewers participate in over 1500 reviews of original and revised manuscripts. Their efforts represent many hours of work that improve the content resulting in a quality publication that contributes to the body of knowledge of our profession. The editors recognize and thank [our reviewers](#) for generously giving their time to review one or more manuscripts. Outstanding reviewers were selected by the Community Editors and were honored at the Annual International Meeting. Check out our [publications awards](#).

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New Resource Now Online



The November-December issue of *Resource* contains progress reports on two important initiatives: the Alliance for Modernizing African Agrifood Systems, and Transforming Food and Agriculture to Circular Systems. ASABE is poised to be a leader in both of these areas.

The magazine also profiles the latest recipient of ASABE's Giving Back award, along with other news and updates about the work of our members. Read the latest *Resource* issue using a [PDF](#) or [online version](#) or read [past issues](#).

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Benefits of Using the Journal Template

Authors! We encourage you to 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. And please be sure to use the [Guide for Authors](#) when preparing your manuscript.

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Are you planning to publish an article in the ASABE journals? Interested in saving some time and making sure that you cite relevant articles from the society's publications? Complete this [Google form](#) to receive a list of key articles to assist with your manuscript preparation. Note there is no obligation to incorporate suggested citations into your article.

If you have questions about this optional, free service, please contact [Garey Fox](#). We look forward to helping you publish your research!

[Click here](#) for more information.

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Mark Calendars for Student Competition Deadlines

Students! Many of our competition application deadlines have been updated to better align with common semester-based timelines. Make note of these entry dates, and prepare to participate!

March 15

Boyd-Scott Graduate Research Competition

April 15

Bioprocess Startup Competition
Ethics Essay and Video Competition
Fountain Wars Competition
Robotics Competition

May 15

AGCO National Student Design Competition
KK Barnes Student Paper Competition
Gunlogson Design Open Competition

For more details on eligibility or competition guidelines, please visit the [student-awards webpage](#).

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Free Reference-Checking Tool

When preparing your manuscripts, you can use this free utility to check for DOI hyperlinks for your references. Just copy and paste your reference list into the [Crossref tool](#).

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AETC 2022 to Convene at Omni Louisville

February 14-16

Omni Louisville Hotel

The 2022 AETC will take us to the beautiful Omni Louisville Hotel, February 14-16. Register now through January 3 for the biggest savings.

Program details, registration rates, and information on the hotel and surrounding area are available on our [web page](#).

Highlights include:



- Three continuing professional development courses
- Distinguished Lecture Series

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Global Initiative Conference Focuses on Sustainable Energy



**May 16-19
San Jose, Costa Rica**

The call for abstracts remains open through February 15, 2022. Authors of accepted and presented abstracts will have the opportunity to submit a full paper or extended abstract to the proceedings or a full paper for a peer-reviewed publication in the *Journal of the ASABE* (formerly *Transactions of the ASABE*) special collection. Find instructions on submitting your

abstract, the link to the submission portal, and all the deadlines at the [conference website](#).

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New Dates Announced for Soil Erosion Symposium



**January 8-13, 2023
Puerto Rico**

The call for abstracts remains open through February 15, 2022. Authors of accepted and presented abstracts will have the opportunity to submit a full paper or extended abstract to the proceedings or a full paper for a peer-reviewed publication in the *Journal of the ASABE* (formerly *Transactions of the ASABE*) special collection.

Find instructions on submitting your abstract, the link to the submission portal, and all the deadlines at the [symposium website](#).

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Register Now for the National Irrigation Symposium

December 6-10, 2021

Registration continues for the joint ASABE/Irrigation Association [6th Decennial National Irrigation Symposium and Irrigation show](#).

member rates. Details on the symposium schedule and show are available at the IA site. For information regarding local testing and mandates, go to the [FAQs & COVID-19 Guidelines page](#).

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In Memoriam—Ray A. Bucklin

ASABE Fellow Ray Allen Bucklin, PE, PhD, passed away on October 23, 2021, at the age of 71.



Raised on his family's Louisiana rice farm, Bucklin received a BS in agricultural engineering from the University of Southwestern Louisiana. After then serving in the U.S. Air Force for two years, he completed a master's degree and PhD, at Louisiana State University and the University of Kentucky, respectively. Taking a position at the University of Florida, in 1982, he flourished, assisting Florida's farmers through university and state programs, as a researcher, and mentoring in the graduate program for 36 years. Still active after retirement in 2018, he returned to his roots within the grain and storage industry, doing work and consulting, as well as guiding his remaining graduate

students.

During his time with the University of Florida agricultural and biological engineering department, the importance of continued research grew, encouraging the development of the graduate student program. Bucklin helped grow the PhD program, enjoying working and researching vast and varied projects with his graduate students.

Bucklin's research included agricultural structures, livestock housing and heat stress relief, grain drying and storage, and structures for plant production. While much of his work centered on the health and productivity of Florida's dairy cows, greenhouses, and grains, his results have been applied in many other tropical and subtropical regions and beyond. Ray also worked in the field of space agriculture and biology, exploring plant growth for long-term space missions, including greenhouses on Mars.

Bucklin was the recipient of numerous ASABE awards, including the Henry Giese Structures and Environment award. Inducted as an ASABE Fellow in 2008, he was a 39-year member of the Society.

[Full obituary](#)

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In Memoriam—William J. Bowers



William J. (Bill) Bowers, age 73, passed away on Sunday, November 14, 2021.

Bowers was born on November 27, 1947, in Somerset, Penn. He graduated from Pennsylvania State University, earning a BS degree in agricultural engineering in 1969. He worked for the U.S. Department of Agriculture, NRCS for 40 years, holding positions such as project engineer, area engineer, and state conservation engineer. Bowers had been a Professional Engineer since 1982. Penn State named him an Outstanding Alumnus, College of Agricultural Sciences (plaque at left), in 1999. He also participated in and served as president of

NABEC and NRCS retirees.

After retiring in 2008, Bowers was able to dedicate himself to one of his true passions, gardening. He was a Penn State Master Gardener and an active member on numerous committees, including the Adams Ricci Butterfly Garden, Allen Road Gardens and Plant

bluebirds and was always willing to share information, give presentations, and would often give away bluebird houses.

He was a 52-year member of ASABE.

[Full obituary](#)

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In Memoriam—Ronald K. Leonard



ASABE Fellow and NAE member Ronald K. Leonard passed away November 8, 2021.

Leonard was born on a farm near Logan, Iowa, on July 10, 1934. He earned a BS in engineering from Iowa State University and an MS in agricultural engineering from Michigan State University.

Leonard spent his entire career with John Deere. He was responsible for designing cotton harvesters in the 1960s, and lawn and garden tractors, and snowmobiles, in the 1970s and 1980s. In succeeding years, he helped John Deere transform agricultural tractors into a worldwide success through global partnerships with agricultural manufacturing companies. He retired in 1998 as director of worldwide tractor and component engineering. During his career he acquired seven U.S. patents. Upon retirement, he co-authored *John Deere Snowmobiles*, with his good friend Dick Teal.

Throughout his career, Leonard was an active member of ASABE, as well as the Society of Automotive Engineers, serving as the latter's president in 1998. He was elected to the National Academy of Engineering in 1999. At the time of his death, he was an associate professor of the ABE department at Iowa State University.

Inducted as an ASABE Fellow in 1985, Leonard was awarded the McCormick-Case Gold Medal in 2011. He was a 65-year member of ASABE.

[Full obituary](#)

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Recent Standards Activities

New Standard

- EP653 OCT2021, Heating, Ventilating, and Air Conditioning (HVAC) for Indoor Plant Environments without Sunlight

Press release

- November 11, 2021, ASABE Announces New Standard for Indoor Plant Growth

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