



Inside ASABE

News for and about ASABE members

August 29, 2018

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From the Executive Director



With memories still vivid from the excellent Annual International Meeting last month in Detroit, it's time to turn our attention to the next round of ASABE conferences, which are rapidly approaching. The [10th International Livestock Environment Symposium](#) will take place in conjunction with the 1st U.S. Precision Livestock Farming Symposium in Omaha, Nebraska, on September 25-27. If you are connected with the livestock field, you'll want to participate in what promises to be a well-attended and stimulating event.

Meanwhile, the planning committee is finalizing the program for the Global Water Security Conference for Agriculture and Natural Resources, which ASABE and the Indian Society of Agricultural Engineers will hold in Hyderabad, India, on October 3-6. See the separate in-depth article below, and learn more about the conference [here](#).

Early next month, our staff colleague Sharon McKnight will be retiring after 30-plus years with ASABE. Sharon is not exactly embracing the "R" word, and she plans to stay busy. She is currently campaigning for a state office with the Order of the Eastern Star, as well as ramping up her already-busy church involvement. We'll miss Sharon's work ethic and expertise, especially in the meetings area. Nevertheless, I'm encouraging her to give this retirement thing a try. She has earned it! Send me an [email](#) if you would like to convey your good wishes as Sharon enters this new chapter in her life.

Darrin J. Drollinger
Executive Director

Upcoming ASABE CSBE/SCGAB Section Meetings and Other Events

Michigan
Sept 20

Minnesota
Sept 20

ILES X
Sept 25-27

GWSC
Oct 3-6

Texas Section
Oct 10

North Carolina
Oct 26

Chicago
October 26

[Click
for details](#)

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Board Approves New Emeritus Category

ASABE recognizes the valuable contributions longtime members have made to the Society, and we hope to encourage continued involvement even as members transition to retirement. Therefore, we're pleased to announce the new Emeritus dues category of ASABE membership.

Emeritus status, which will take effect in 2019, waives dues for those at least 65 years of age and have 35 or more years of ASABE membership. Emeritus members will access *Resource* magazine online only, with hard copy available for a fee to cover postage.

Those who are eligible are being contacted, but if you know you'd like to take advantage of this offer, feel free to email [Mark Crossley](#).

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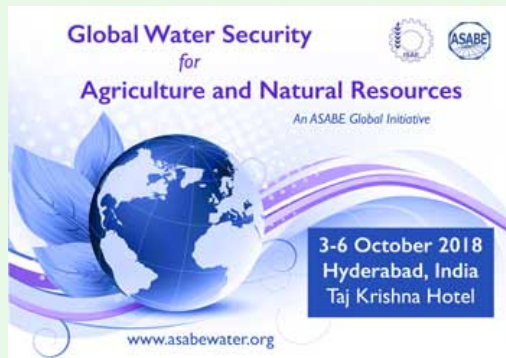
Dues Increase Set for 2019

The ASABE leadership does its very best to manage the Society in a fiscally responsible manner, and to limit member dues increases. However, inflation makes it impossible to not raise prices occasionally. The ASABE Board of Trustees completed a dues review process (typically done every five years; the last dues increase was in 2014) and concluded that a dues increase is necessary. Dues will be increased 13.4% in 2019 across all dues categories except for undergraduate and graduate students. You will see this increase reflected in your 2019 dues invoice.

If you follow ASABE's overall financial situation, you may ask why a dues increase is needed if ASABE is on solid economic ground and the Restricted Reserve is in excellent financial health. The Restricted Reserve has funded a series of initiatives in recent years, totaling hundreds of thousands of dollars, to support the creation of new member-driven activities, projects, products, services, and programs. However, it cannot be used to fund day-to-day expenses or pay ASABE staff salaries and overhead expenses in order to run the Society. Your dues payment helps make all this and more possible, and ultimately strengthens the agricultural and biological engineering profession.

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Together We Can Achieve Water Security: GWSC Early Bird Extended to September 15



On October 3-6, 2018, ASABE will host the Global Water Security Conference for Agriculture and Natural Resources, in Hyderabad, India, in association with the Indian Society of Agricultural Engineers (ISAE).

This ASABE Global Initiative conference--the first was Engineering and

Technology Innovation for Global Food Security Conference in Stellenbosch, South Africa--continues ASABE's focus on opportunities for our Society to contribute to, and lead components of, developing sustainability in the food-energy-water nexus around the world.

One important theme of the conference is *Together we can achieve water security* to support agricultural production and protect natural resources. This theme—more appropriately a call to action—highlights ASABE's commitment to help achieve global water security. If we, as ASABE members, are true to the statement that "ASABE is dedicated to the advancement of engineering applicable to agricultural, food, and biological systems" and to our claim that "ASABE members work to develop efficient and environmentally sensitive methods to produce food, fiber, timber, and renewable energy sources for an ever-increasing world population" then we can and should play a role in this initiative.

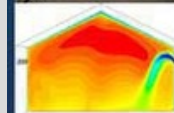
The Keynote Speaker at the 2018 ASABE Annual International Meeting, Margaret Catley-Carlson, Vice Chair of the Canadian Water Network Board, and the panel discussion "Producing More Food with Less Water: Does technology, management, or policy provide the best bang for our buck?" provided great momentum, building

WELCOME
New
Members!

July
2018

Click to see who's
joined
your network of
colleagues

10th International
Livestock
Environment
Symposium
(ILES X)
and
1st US
Precision
Livestock
Farming
Conference



September
25-27
Omaha,
Nebraska

Registration
Open

to this fall's conference.

So, plan on joining us at this international forum for the exchange of scientific ideas and technologies to address global water security issues in agroecosystems. Early Bird registration rates have been extended to September 15. Explore transdisciplinary solutions to achieve water security from farm to global scales and see successful examples of water security innovations. You will leave with a deeper understanding of the needs of the technology users and the constraints in their adoption. Your participation will enhance non-traditional collaborations across agricultural, urban, industrial, and natural resource sectors. This stakeholder-driven conference will facilitate information exchange, technology development, public-private partnerships, and policy directives that will contribute towards the long-term sustainable use of water for agricultural production and conservation of natural resources that ultimately will improve agricultural productivity and water use efficiency. This conference is designed and planned for:

- Researchers to share and learn from examples of the latest technologies and tools, and improve understanding of stakeholders
- Action agencies to gain insights on implementing innovations
- Industry to understand business opportunities and needs for technological innovations and develop partnerships for entrepreneurial success
- Policymakers to understand how the regulatory framework and enabling agencies can catalyze or inhibit transdisciplinary solutions

Then, stay engaged! Plan on contributing to: a white paper outlining recommendations from the conference to guide future research, technology development, public-private partnership, and policy recommendations; a series of technical papers in *Transactions of the ASABE*, *Applied Engineering in Agriculture*, and *ISAE Journal of Agricultural Engineering*; and more importantly to developing and implementing other science- and engineering-based information and technology.

Water may be the most important link in achieving global food security. Let us work to change that. Use your talents abilities to provide global water security. *Together we can achieve water security*, and so much more.

Global Water Security Conference Publications Committee
Daren Harmel, chair; Pouyan Nejhashemi; Srinivasulu Ale; Bill Tollner

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Recent Graduate? Enjoy a Special Membership Rate!

If you graduated anytime in late 2017 or all of 2018, with your BS, MS or PhD, you are eligible for our special student transfer rate, which is greatly discounted from the standard dues structure. As a student transfer, you will be considered a full Society member, with voting privileges, and pay slightly more in dues per year than what you last paid. Student transfer rates are good for two years for BS graduates and one year for MS and PhD graduates. If you have graduated, we'll be happy to change your membership category. No need to send money now—your new dues rate will be reflected on your 2019 invoice.

Please alert us of changes as soon as possible, as we will be printing invoices next month and want to be sure we have your correct classification. Also, if you have updated mailing and email addresses, please let us know those as well. We don't want to lose touch with you. Questions? Please contact [Tina Schultz](#).

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Visual Challenge 9: Enter by October 5



ASABE's first-ever Visual Challenge was a big success. The winning entries were published in the November/December 2010 issue of *Resource* magazine, and members have been commenting on it ever since.

Now the competition is on again: our ninth year of photography, illustrations, drawings, or graphics, showing the world what agricultural and biological engineering really means. How do you see it? Use the Visual Challenge as an opportunity to convey and celebrate the beauty of your work, your research, or your Society division. It's up to you and your camera, so be creative!

Feel free to submit as many entries as you want. All entries should be original work, and the image resolution must be 300 dpi or



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greater. The deadline for submissions is October 5, 2018.

Email your entries, as attachments, to mitro@asabe.org. Write "Visual Challenge 2" in the subject line, and include a title and brief description of each image. If necessary, please include a name for crediting the image and written assurance that permission has been granted to submit and possibly publish the image.

The best images will be selected by ASABE staff and published in the January/February 2019 issue of *Resource*. Good luck, and have fun!

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2018 Presidential Citations

Presidential Citations honor members for their extraordinary service and invaluable contributions to the Society. The following individuals were recognized at the 2018 Annual International Meeting.

Douglas R. Otto

In recognition of his leadership in establishing the Davidson Prize in partnership with the Association of Equipment Manufacturers. The Davidson Prize recognizes top AE50 products perceived to be the most innovative and likely to have significant impact on agricultural production, efficiency, or safety. The inaugural prize winners were recognized at the 2018 Commodity Classic.

Sherry L. Hunt

For her role in chairing an ad hoc committee tasked with examining the perception of the value ASABE membership provides. Under her leadership, the committee recommended a survey of members and non-members that was conducted, the results of which are available to guide future actions of the Society.

Robert J. Gustafson

For his six years of leadership as President of the ASABE Foundation. During his tenure, all of the endowed funds were positioned to meet their for-purpose giving in perpetuity and the overall Foundation assets increased by about 65 percent.

Steven E. Taylor

In recognition of his leadership of the Publications Task Force that studied ASABE refereed journals and the editorial process. Their efforts set in motion actions that have resulted in a number of improvements, including the establishment of an editor-in-chief position for ASABE journals.

Ernest W. (Bill) Tollner

For his efforts representing ASABE at the ASCE-EWRI Curve Number Update Task Force, which revised the Curve Number method of predicting hydrology and runoff, reconciling the published USDA-NRCS methods with modern findings, approaches, and audiences.

Richard W. Job

In recognition of his leadership and commitment in the development of the ASABE S613 standard series on the cab enclosure air quality of agricultural tractors and self-propelled machinery. The series consists of four individual, yet interconnected, documents for the cab enclosure, filters, HVAC design, and performance testing.

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2018 ITSC Community Meeting Paper Awards

The Information Technology, Sensors, and Controls Technical Community Meeting Paper Award competition was established in 1999 to encourage high quality conference papers. For the 2018 ASABE Annual International Meeting in Detroit, the following papers and their authors were selected and honored for recognition.

S. Sun, C. Li, A. Paterson, Y. Jiang, J. Robertson, "3D Computer Vision and Machine Learning Based Technique for High Throughput Cotton Boll Mapping Under Field Conditions"

Y. Lu and R. Lu, "Detection of Surface and Subsurface Defects of Apples Using Structured-Illumination Reflectance Imaging with Machine Learning Algorithms"

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Preprofessionals Earn Awards, Scholarships

Congratulations to these teams and individuals for outstanding achievements in ASABE preprofessional competitions.

Boyd-Scott Graduate Research Award

M S Category

First Place: Kapil Khanal, Washington State University

Second Place: Kritika Malhotra, Auburn University

Third Place: Sunho Park, Chonnam National University
PhD Category
First Place: Ryan Kalinoski, University of Kentucky
Second Place: Wenqi Li, University of Kentucky
Third Place: Meetpal Singh Kukal, University of Nebraska-Lincoln

K. K. Barnes Student Paper Award Winners

First Place: Michelle A. Friedmann, Iowa State University
Second Place: Berkley P. White, Kansas state University
Third Place: Michelle P. Dixon, Purdue University

AGCO National Student Design Competition Winners

First Place: North Carolina State University, Alex Greeson, Benjamin Cauthen, Benjamin Cranfill, Matthew Parker, William Marsh
Second Place: University of Wisconsin-Madison, James Dodge, Yash Mirchandani, Javier Castro, Zachary Wilson, Jason Ha
Third Place: Oklahoma State University, Laymon Barnett, Caleb Curren, Bo Davenport

Robotics Student Design Competition

Beginner division

First Place: China Agricultural University, China Ag
Second Place: Zhejiang University, Zhejiang team
Third Place: Clemson, CARA

Advanced division

First Place: China Agricultural University, Dream team
Second Place: University of Georgia, UGA Engineers
Third Place: University of Florida, RoboGators

G. B. Gunlogson Environmental Student Design Competition

Fountain Wars

First Place: Iowa State University
Second Place: University of Nebraska-Lincoln
Third Place: Kansas State University

Open Competition

First Place: North Carolina State University
Second Place: University of Arkansas
Third Place: Kansas State University

International 1/4-Scale Tractor Student Design Competition

First Place: South Dakota state University
Second Place: Kansas State University
Third Place: University of Kentucky

Ag & Bio Ethics Essay Competition

First Place: LeeAnn Johnston, Auburn University
Second Place: Kayla Kassa, North Carolina State University
Third Place: Cami Shands, Auburn University

ASABE Ethics Video Challenge

First Place: Auburn University, Justin Box, Dillon Sprague, Andie Altemeier, Austin Apel, "[How Not to Be Ethical](#)"
Second Place: North Carolina state University, Kayla Kassa, Katie Balaze, and Katy Mazer, "[The Ethics of Green Infrastructure and its Benefits on Human Health](#)"

ASABE Scholarship

William J. Adams, Jr., and Marijane E. Adams Scholarship

Maria Graber, Virginia Tech University

ASABE Foundation Engineering Scholarship

Jia Wen Lee, Iowa State University

Student Honors Award Winners

Engineering Branches: Alex Greeson, North Carolina State University
Technology Branches: No Recipients

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Textbooks and History Books Available on Amazon

Did you know. . .

ASABE textbooks and some history books are available in our [Amazon store](#).

Also available through Amazon are two standards, in Kindle and paper formats:

[ANSI/ASAE S279.17 JUL2013 Lighting and Marking of Agricultural Equipment on Highways](#)

[ANSI/ASAE S390.6 \(ISO 12934:2013\) DEC2016 Tractors and machinery for agriculture and forestry - Basic types—Vocabulary](#)

Can't find what you're looking for? Give us a call: 800-371-2723 or 269-932-7005, 8 am - 4:30 pm Eastern time, Monday through Friday; or fax 269-429-3852 or email

the [Order](#) department.

Orders can also be mailed:

ASABE Order Dept.
2950 Niles Road
St. Joseph, MI 49085-8607 USA

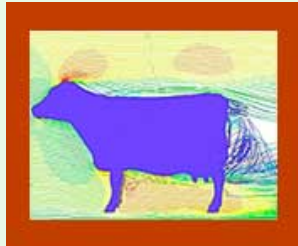
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AIM 2019, Boston - Mark Your Calendar!

Thank you to all that took part in the 2018 Annual International Meeting in Detroit, Michigan last month. It was a great success! Please watch for information on the 2019 AIM, to be held in Boston, Massachusetts July 7-9, 2019. Upcoming annual meeting details will be provided soon are published at www.asabemeetings.org.

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ILES X, Precision Livestock Farming Symposium - Registration Open!



10th International Livestock Symposium (ILES X)
with 1st US Precision Livestock Farming Symposium
DoubleTree by Hilton, Omaha, Nebraska
September 25-27, 2018

ILES X is the event to attend for those in livestock and related fields. Invited speakers will be featured throughout the symposium, while the technical sessions are filled with quality presentations from authors across the

globe.

Online registration is open until September 4. For program information, please visit www.asabe.org/ilesx2018. Registration includes a networking reception, a keynote luncheon, and a technical tour. Among the list of stops in this tour are the Lincoln Premium Poultry Chicken Farm, J&S Feedlot Beef Cattle Feedlot, and Larson Farms Robotic Dairy. The full agenda for the tour and the symposium program are available on the website.

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Major Awards Nominations Due October 31

Please have your nominations in for all major awards submitted by the deadline, 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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WVU Hosts NABEC Annual Conference



More than
110
conference
attendees

and their families gathered at the Lakeview Golf Resort and Spa, Morgantown, W.V., July 15-18, to relax professionally. Attendees enjoyed keynote addresses from Daniel Robison, dean of the Davis College of Agriculture, Natural Resources, West Virginia University (WVU); Joe Hatton, deputy commissioner of the West Virginia Department of Agriculture; Stephen Searcy, ASABE president; Steve Bonanno, dean of the WVU Extension Service; and Melanie Page, associate vice president for creative and scholarly activities, WVU.

The conference consisted of 41 technical presentations, 32 poster presentations, a panel discussion, a picnic, an awards banquet, and a technical tour. Attendees also enjoyed picnic activities, such as Futsal and human bowling ([watch](#) President Searcy try it out) offered by WVU and Zip-Line Canopy Tour at the WVU Research Forest offered by WVU's Adventure WV Outdoor Education Center group. The conference was sponsored in part by West Virginia University's Provost Office, Office of Dean of the WVU Davis College of Agriculture, Natural Resources and Design, and Office of the Dean & Director of WVU Extension Service.

Local news [covered the event](#) as well. For more pictures of NABEC 2018, please visit [#NABEC](#).

Thanks to the local arrangements team: Kaushlendra Singh and Litha Sivanandan of WVU, and Andy Deichert and Kathy Allen of UDSA-NRCS.

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In Memoriam - Claude Brown



ASABE Fellow Claude Edward Brown was born December 27, 1948, in Petaluma, Calif., to Joseph Isles Brown and Frances Yost Brown. He grew up in Rio Vista, Calif., and was a 1967 honors graduate of Rio Vista Joint Union High School, where he lettered in football, baseball, basketball, and track. He also served as a member of the NROTC. After high school, Claude served as a volunteer fireman in the Rio Vista and greater River Delta area. He continued his studies at San Joaquin Delta College and the University of California at Davis, before enlisting in the United States Navy, where he served first as an electrician's mate before undergoing special training.

After his service in the Navy, Brown worked for King Electrical Company and for McPherson/Norberg as a Registered Consulting Electrical Engineer, then received a degree in Rubber & Plastics from the University of Ohio. In 1969, he married Marilyn Howen and they moved to Lodi in 1972. Claude was employed by Holz Rubber, first as an engineer, then as VP of Manufacturing.

In 1979, Brown, together with Paul and Charles Burkner, formed Ag Industrial Manufacturing Inc. Starting out with custom mechanical grape harvesting and just a handful of employees, they quickly grew to employ 40 to 50 people depending on the season. Early on, harvest season saw Claude often sleeping in his truck in the vineyards, ready at a moment's notice to repair or service a harvesting machine. In 1990, AIM introduced the GH9000 mechanical grape harvester. The machine sold well throughout California and the West Coast, and AIM was taken into the machine design, manufacturing and repair business. Brown holds several patents for his inventions which have applications in the agricultural industry and beyond.

Brown was a life-long community volunteer, donating his time and organizational skills for the Western Center for Agricultural Equipment at UC Davis, the Alice Hunter Building at Micke Grove Zoo, the Ag Equipment Center Complex at the San Joaquin County Historical Museum at Micke Grove, and Micke Grove Zoo East End Renovation. He served as president of the Micke Grove Zoological Society, vice-president of the San Joaquin County Historical Society, president of Lodi Adopt-A-Child, and president of the board of directors of Mokelumne Fire Department. He loved to cook for crowds and was extremely talented at organizing his friends to help provide meals for charitable events. In 2002, Brown was named the Agribusiness Person of the Year by the Lodi District Chamber of Commerce and has been inducted into the Lodi Community Hall of Fame as well as the San Joaquin County Ag Hall of Fame. Most recently, he was honored at the Notably San Joaquin Dinner and Wine Auction by the San Joaquin County Historical Society. As a member of ASABE, he held positions on several boards at the national level.

Brown was preceded in death by his parents and wife Marilyn, and is survived by his daughter Mia Brown, son-in-law Bob Ford, beloved grandson Clayton, and a vast family of friends. In lieu of flowers, donations in his memory may be sent to ASABE Foundation KEYS Fund, 2950 Niles Road, St. Joseph MO 64508; San Joaquin County Historical Society, P.O. Box 30, Lodi CA 95241-0030; or Lodi Adopt-A-Child, P.O. 2479, Lodi CA 95241.

He was a 35-year member of ASABE.

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In Memoriam - James Curtis Frisby



James Curtis Frisby, 87, passed away on August 21, 2018, in Columbia, Mo.

Frisby was born on October 22, 1930 to Jackson C. Frisby and Gladys (Selby) Frisby on a farm near Bethany in Harrison County, Missouri. After graduating from Bethany High School in May 1948, he attended the University of Missouri-Columbia where he completed the Army ROTC program and received a BS in education, in June 1952. He was immediately called to active duty and served a tour of duty in Germany during the Korean War. After he was released from active duty at Fort Knox, Ky., in March 1954 as a 1st Lt Army, Artillery, he returned to MU to complete a BS in agricultural engineering. Frisby went on to earn an MS (1963) and a PhD (1965) in agricultural engineering, both from Iowa State University.

Frisby was employed from 1956 to 1960 by Caterpillar Tractor Co., Peoria, Ill. At Iowa State University, he served as assistant manager of farm services from 1961 to 1963 and as an instructor in the agricultural engineering department, 1964 to

1965. He joined the faculty of the UMC Department of Agricultural Engineering in January 1966 as an assistant professor and advanced to full professor in 1974. He served as department chairman from 1989 to 1994. Although he worked in research and extension, his primary interest was on-campus classroom teaching and he was always interested in and involved in student activities and curriculum. Frisby published numerous refereed-journal articles and extension guide sheets. He was recognized as an outstanding teacher by the college of agriculture, food and natural resources and the college of engineering. He registered as a professional engineer in the states of Iowa and Missouri. He retired from the department in 1996 as professor emeritus in agricultural engineering.

Frisby married Hazel M. Kallenbach on December 20, 1969. She was a true partner in all aspects of his life, including serving together in church work, assisting in taking groups of students to observe agricultural practices overseas and entertaining department faculty and students. Frisby was a faithful member of the church of Christ and attended the Hallsville congregation for over 30 years. He taught bible classes, led singing, and preached for small congregations whenever and wherever he was needed. he also assisted with a Chapel Church program for inmates in the Moberly Correctional Center.

After his retirement, Frisby gave back to the community by his many volunteer efforts. He was Math Counts coordinator for Central Chapter, Missouri Society of Professional Engineers, a math program for seventh and eighth graders, from 1997 to 1999. He was an AARP tax counselor and assisted with the Senior Games. He volunteered with the University Hospital on the family desk in the surgery department and later with the VA Hospital in patient transportation. He belonged to Golden K Kiwanis Club, through which he delivered for Meals on Wheels and worked at the Central Missouri Food Bank. He acted as representative for K-Kids Club (for elementary students) and Builders Club (for junior high students) and also assisted with the Harmonica Club at Field Elementary. He and Hazel were residents of the Lenoir Woods Senior Community in Columbia for several years.

Frisby was preceded in death by Hazel, in 2017, and by his parents, three sisters, and one nephew. He is survived by one sister and three nieces, as well as three great-nieces and three great-nephews.

In lieu of flowers, memorial contributions can be made the Food Bank for Central and Northeast Missouri, 2101 Vandiver Drive. Columbia, MO 65202

Frisby was a 60-year member of ASABE.

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Recent Standards Activities

New Revisions

- ANSI/ASAE S315.5 AUG2018, Agricultural Baling Twine for Automatic Balers
- ASAE S324.3 JUL2018, Volumetric Capacity of Open-Top Manure Spreaders - Dual Rating Method
- ANSI/ASABE S572.2 JUL2018, Spray Nozzle Classification by Droplet Spectra
- ANSI/ASABE S625.1 JUL2018, Drawbar Pin Dimensions and Requirements for Towing Machine with Clevis

Press Releases

- August 8, 2018, ASABE Revises Standard for Drawbar Hitch-Pin Testing
- August 14, 2018, ASABE Revises Manure Spreader Capacity Standard
- August 14, 2018, ASABE Revises Agricultural Baling Twine Standard

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