

American Society of Agricultural and Biological Engineers



Inside ASABE

News for and about ASABE members

May 31, 2017

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From the Executive Director

Late last month, I was honored to take part in the third and final event celebrating 100 years of ag engineering at the University of Missouri's Department of Bioengineering and share congratulatory remarks on behalf of President Herron. Jinglu Tan and Leon Schumacher proudly hosted an energetic crowd at the South Farm on campus and we soaked up the student club displays, examples of research going on in the department and the opportunity to visit with students and alumni. My visit was a series of firsts: I toured the bioengineering building and fully appreciated the department's proud tradition; learned how to pronounce "Mizzou;" and sampled Buck's Tiger Stripe ice cream (it's the best). The torrential rain prevented us from taking in the outdoor equipment exhibits, drones, and 1/4-scale demonstrations, but it was a celebration worthy of the century mark.

Upcoming
ASABE
CSBE/SCGAB
Section
Meetings
and
Other Events

Florida
June 21-24

NABEC
July 30 - Aug 2

Click
for details



The Mizzou "Torq'N Tigers" are looking forward to the 20th Annual International [¼-Scale Tractor Student Design Competition](#) next week in Peoria, Ill and so am I. We expect 26 A-teams and 10 X-teams to participate and compete for the top prizes. The ¼-scale competition is very international and we'll have four Canadian and two Israeli teams in Peoria. The event takes place June 1-4 at the Expo Garden Center, and to commemorate the 20th anniversary we'll have alumni pulls and special events on Saturday.

Lastly, be sure to hurry and take advantage of the "early bird" rate and register for the [2017 Annual International Meeting](#) by June 9. I look forward to seeing you in Spokane.

Darrin J. Drollinger
Executive Director

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2017 Class of ASABE Fellows Announced

ASABE is honored to announce the 2017 Class of Fellows. They will be inducted as ASABE Fellows during the ASABE Fellows Honor Recognition Ceremony and Reception at the Annual International Meeting, on Monday, July 17, at 6:00 p.m. Please plan to join them at the ceremony, to celebrate their outstanding achievement.

Sreekala G. Bajwa
Edward M. Barnes
Christopher L. Butts, PE
Mark Casada, PE
Indrajeet Chaubey
Michael D. Dukes, PE
Michael C. Hirschi, PE
Bryan M. Jenkins
Irenilza A. Nääs, PE
Erdal Ozkan
Dana Osborne Porter, PE
Sylvia L. Schonauer, PE
Leon G. Schumacher

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Award Winners to Be Honored in Spokane

ASABE is pleased to announce the 2017 class of Major Award recipients! They will be presented with their awards during the awards luncheon at the 2017 Annual International Meeting, on Wednesday, July 19, at 12:30 pm. Please join us in honoring these individuals.

- Sasha Howes, Pharos of Alexandria Global Learning
- Christian Ley, Yoerger Preprofessional Engineer of the Year
- Hallie Nelson, Robert E. Stewart Engineering-Humanities
- Lisa R. Wilken, Gale A. Holloway Professional Development
- Matt Darr, New Holland Young Researcher
- Joe D. Luck, PE, Larry W. Turner Young Extension Professional
- Leigh-Anne H. Krometis, A.W. Farrall Young Educator
- Brian M. Huenink, Sunkist Young Designer
- Qin Zhang, John Deere Gold Medal
- Changying Li, Rui Xu, and Pengcheng Yu, "Second Generation Berry Impact Recording Device (BIRD II)," Rain Bird Engineering Concept of the Year
- Steven K. Mickelson, James R. and Karen A. Gilley Academic Leadership
- Richard J. Straub, Evelyn E. Rosentreter Standards
- Curtis L. Weller, PE, PEI Professional Engineer of the Year



- G.S. Vijaya Raghavan, Kishida International
- Digvir S. Jayas, P.Eng., Sukup Global Food Security
- Bill A. Stout, PE, Lalit and Aruna Verma Award for Excellence in Global Engagement
- Scott A. Shearer, PE, McCormick Case Gold Medal
- Jiusheng Li, Netafim Microirrigation
- Yrjo H. Roos, International Food Engineering
- Jerry Wille, PE, Henry Giese Structures & Environment
- Vijay P. Singh, PE, ADS/Hancor Soil and Water Engineering
- Kati Migliaccio, PE, G.B. Gunlogson Countryside Engineering
- Richard Byler, Mayfield Cotton Engineering
- Paul Ayers, PE, SMV Technologies Ergonomics, Safety and Health
- Eduardo Bautista, Advancement of Surface Irrigation
- Danny H. Rogers, PE, Heermann Sprinkler Irrigation
- Ann D. Christy, PE, Massey-Ferguson Educational Gold Medal

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2017 AIM: Early Bird Rates End June 9!



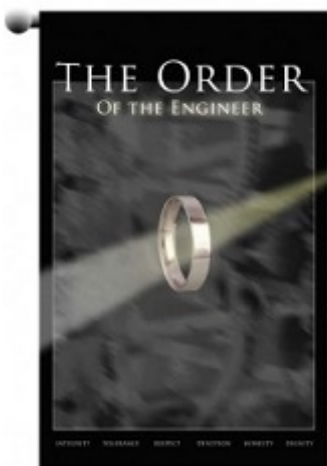
Registration is open, and best rates are ending soon for the ASABE 2017 Annual International Meeting, July 16-19, in Spokane, Wash., featuring keynote speaker [Kenneth M. Quinn](#), president of the World Food Prize Foundation and former U.S. ambassador to Cambodia.

Don't miss out on this great networking experience. Enrich your professional expertise with career development courses, technical presentations, local industry tours, and countless opportunities to interact with colleagues and peers. You'll find information about all activities, as well as travel, transportation and accommodation details, at www.asabemeetings.org. We hope you're planning to stay at one of the host hotels--the lovely Davenport Grand and Doubletree hotels, conveniently located by the convention center. Book your room now--our blocks are nearing capacity.

[Early bird meeting-registration](#) rates end June 9, so don't delay. And be sure to register early for [technical and social activities](#), some of which are subject to cancellation if demand is low.

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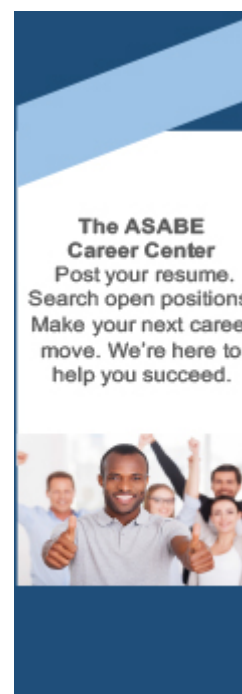
Enrollment Open for 2017 Order of the Engineer Induction Ceremony



ASABE invites you to join the Order of the Engineer this summer. The induction ceremony will take place during the 2017 Annual International Meeting, in Spokane, where new members will be invited to accept the Obligation of the Engineer and a stainless steel ring, which is worn on the little finger of the engineer's working hand. Click [here](#) to learn more about the Order.

You are eligible to join the Order if you are a graduate of an ABET-accredited engineering program; a senior in an ABET-accredited program within two academic years of graduation; a licensed PE; or, by reciprocity, a member of the Canadian Calling. Inductees must be present to accept their certificate and ring in Spokane. The one-time cost of entering the Order is \$15.00, and inductees may register with [Tina Schultz](#), any time before the meeting or in person at the membership booth in Spokane.

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1/4-Scale Competition Underway June 1



If you happen to be in or near central Illinois next week, plan to join us at the Expo Gardens in Peoria to help us celebrate the 20th annual International 1/4-Scale Tractor Student Design Competition. We have 27 teams from universities across the US, Canada, and Israel eager to fight for the coveted title of competition champion.

The tractor pulls are free and open to the public Saturday evening and Sunday mid-day, so plan to come out and cheer on your favorite teams! More detailed information on the competition may be found [online](#).

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Students! Ready, Set, Claim Your CNH-Sponsored Foundation Dinner Tickets in Spokane



For the seventh year in a row, CNH Industrial has graciously agreed to sponsor 50 tickets for student members of ASABE/CSBE to attend the popular Foundation Dinner, held at the annual international meeting. This year's event will take place Tuesday evening, July 18, at the scenic [Arbor Crest Wine Cellars](#) and will feature Washington State University's Gwen Hoheisel, who will give a presentation entitled, "Viticulture and a Little Enology: the Science and Business of Wine."

ASABE Foundation events at the AIM offer excellent networking opportunities. If you'd like a ticket, you must send a message to [Mark Crossley](#) no later than June 19. Your name will then be entered in the drawing to be held the following week. If your name is selected, we will contact you with details for claiming your free ticket. This is a \$100 value, so don't delay! Good luck!

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2017 Annual Meeting Paper Submission

The deadline for the submission of full papers is June 9, 2017 11:59 pm EST for publishing in the ASABE Online Technical Library. Revised and late papers may be uploaded June 17 to July 31, 2017. These papers will not be posted to the Technical Library until late August, and no exceptions will be given.

All presenters are required to register for the meeting. Presentations whose authors have not registered by June 9 will be removed from the program and not posted online.

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Guide to Consultants Now Available

The 2017 Guide to Consultants, a supplement of *Resource* magazine, is now available [online](#). The print edition is included with the May/June *Resource* issue. This concise reference helps you to find the right expertise for your project. An agricultural or biological engineering consultant offers years of experience, education, and, in most cases, professional engineering credentials.

[Learn more](#) about what a consulting engineer can do for you.

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Last Call for Advertising: Ag Systems Management

There is still time to promote your department's ag tech, systems management programs in "Explore." Ag tech or systems management students and job newcomers are featured in the September/October issue of *Resource* magazine.

Advertise your department by contacting [Sandy Rutter](#), 269-932-7004. Departments will receive copies of the special-focus issue for recruiting students. Copies are distributed via Discover Engineering Family Day in Washington, DC, the FFA National Convention, ASABE staff travel, requests for career materials from individuals and teachers, and other outreach avenues. See the last issue [here](#) and www.asabe.org/Advertise for details.

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Journal News - Publons, Editor Best Practices

Publons Showcases Journal Reviewer and Editorial Activity

[Publons](#) integration with ScholarOne Manuscripts has been completed. Publons provides verified evidence of peer review and editorial contributions. [Publons Academy](#) offers free reviewer training. Get connected with journal editors and mentors.

Best Practices for Editors Updated

The [best practices for editors](#) has been updated to reflect the reduced time to complete first review. Editors, associate editors, and reviewers should review the new schedule promptly.

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Announcing Visual Challenge 7



Visual imagination combined with technical skill can produce astonishing—and deeply informative—images.

To call attention to and celebrate the visual aspects of agricultural and biological engineering, *Resource* announces the seventh

annual Agricultural and Biological Engineering Visual Challenge. The ongoing theme is visual communication of agricultural and biological engineering, and the Challenge is open to all—members, non-members, engineers, and non-engineers. To participate, submit one or more entries in any/all of three categories: photographs/captured images, illustrations/drawings, and informational/explanatory graphics.

Use your entry to convey the beauty and meaning of your work, your research developments, or your travels. The Challenge is an opportunity to be creative and to show those outside the ABE field: "This is what we do."

Submit your entry as an e-mail attachment in jpg format (300 dpi or higher) to [Sue Mitrovich](#), *Resource* managing editor. Enter "Visual Challenge 7" in the subject line, and include your full name, professional affiliation, contact information, and a title with a brief description of your entry in your message. Multiple entries are welcome. Deadline for submission is October 1.

The winning entries will be selected by *Resource* staff and published in the January/February 2018 issue.

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Raghavan Named Fellow of Canada's EIC



CSBE and ASABE Fellow Vijaya Raghavan has been inducted as the Fellow of the Engineering Institute of Canada (EIC) for exceptional contributions to engineering in Canada.

Raghavan is a professor at the Department of Bioresource Engineering of McGill University. He has much expertise in the development and implementation of post-harvest technologies and methods for handling, drying, heat treating, and storing of crops and produce, as well as for value-addition to produce and waste agricultural materials. As director of four CIDA-funded projects and an IDRC project from Global Affairs Canada, and as a collaborator in other international development projects, he has considerable experience in the transfer of this technology to address issues of food security and safety in India, China, West Africa, and Ethiopia. He is a Fellow of the Royal Society of Canada, current president of CSBE, and a member of the Food Expert Advisory Committee of Health Canada.

EIC was founded in 1887 as the Canadian Society of Civil Engineers, the name being chosen to mean non-military engineers. It was later renamed the Engineering Institute of Canada in 1918. Twelve constituent societies comprise in the EIC federation, to which belong nearly 25,000 Canadian engineers. See the press release [here](#).

He is a 49-year member of CSBE & ASABE.

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Goyal Honored with Distinguished Scientist Award



Megh R. Goyal, former professor of agricultural and biological engineering, University of Puerto Rico, was honored with a Distinguished Scientist Award for his work in microirrigation at the National Congress on New Challenges and Advances in Sustainable Microirrigation. The award was presented at Tamil Nadu Agricultural University, Coimbatore, India, during the three-day congress, organized by the Water Technology Centre. The conference promoted discussion of research outcomes, analyzing the challenges, and finding solutions for expanding microirrigation across India.

Goyal is a 38-year member of ASABE.

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In Memoriam - David Alan Corn



David Alan Corn, PE, 63, of Inman, Kan., passed away May 11, 2017, surrounded by his family.

Born April 20, 1954, in Independence, Kansas, Corn grew up in Bushton, Kan., with his brother, Roger, and sisters, Carolyn and Susan. After high school he attended Kansas State University, where he received bachelor's and master's degrees in agricultural engineering, but more importantly met his wife Sheila. David and Sheila were married December 21, 1975, and enjoyed 41 happy years of marriage.

The couple have eight children: Joshua, Rebecca, Sarah, Rachel, Leah, James, Jonathon, and Daniel. They also have three grandsons: Hudson, Logan, Neil, and Thomas. His biggest pleasure in his life was in his family. His family and community will undoubtedly miss him greatly.

Corn was an engineer, but he had many hobbies in life, including wood- and metal-working, leatherwork, and many other skills. His children will forever be grateful for the gifts and skills that he passed on. David was a brilliant, caring, and patient teacher to everyone he encountered. His influence and instruction have created a legacy that will live on for years.

He was preceded in death by his parents. Memorials may be given to the Youth

Club Scholarship Fund at Our Redeemer Lutheran Church, the Corn Family Scholarship Fund at Inman High School, or the American Cancer Society, in care of Elliott Mortuary, 1219 N. Main, Hutchinson, KS 67501.

He was an eight-year member of ASABE.

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In Memoriam - Howard W. Johns



Howard W. Johns, of Sunset Hills, Mo., was born May 5, 1928, in Pierson, Iowa, to Howard Lester and Jesse (nee Wilson) Johns, and entered into rest, Saturday, January 14, 2017, in St. Louis, Mo., at the age of 88 years.

He is preceded in death by his wife, Theresa L. (nee Goeldner) Johns, parents, Howard Lester and Jesse (nee Wilson) Johns, and brother Dean Johns.

He is survived by, four children, Gail (Lee Fox) Johns, Karen Johns, Phyllis (David) Smith, and Janet (Dale) Jones, seven grandchildren, Erin Mayberry, Rebecca Lee Smith, Nicolette (Clinton) Johns, Jesse (Tabetha) Smith, Danielle Smith, Katie-Lee Jones, and Wilson Jones, two great grandchildren, Jaiden Smith, and Vivienne Mayberry, one sibling, Eleanor Johns, as well as many other relatives and dear friends.

Johns was a member of St. Lucas U.C.C. in St. Louis. He worked for Ralston-Purina for over 40 years. Howard loved to tinker, invent, and just work on things. He is fondly remembered and will be dearly missed by all who knew and loved him.

Memorials may be made to the American Heart Association, 3816 Paysphere Circle, Chicago, IL, 60674-0001.

He was a 64-year member of ASABE.

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In Memoriam - Frederik (Frits) Wilte Bakker-Arkema



Born on August 18, 1932 in Groningen, The Netherlands, Frederik Bakker-Arkema passed away on April 25, 2017, at age of 84.

Bakker-Arkema grew-up on a farm on the North Sea during the Depression and World War II. These events, the loss of his mother, and the loving and enduring support of his father, had a lasting impact on his life and shaped many of his values and beliefs. Following the war, he moved to Wageningen, where he lived as a teenager. In 1951 he attended Bluffton College in Ohio as a foreign exchange student. He spent a year at Bluffton before transferring to Michigan State University, completing his undergraduate degree in 1959. He later earned his PhD in agricultural engineering at MSU in 1964. He married the love of his life, Paula de Mol, in Gouda, The Netherlands, in 1957. They were married 59 years.

Bakker-Arkema spent his entire professional career at MSU, reaching full professor in 1971, until his retirement in 2000. He continued to teach at MSU for several years following his retirement because of his love for teaching. He published numerous technical publications in the area of post harvest technology, including the US standard textbook on grain-drying. He engineered the concurrent-flow grain-drying technology, now commercialized on three continents. He was the developer of the MSU grain-drying simulation models, now used worldwide, and he was a fellow at CIGR (International Society of Agricultural Engineers). He was a leader and innovator in his field, but his most proud professional achievement was educating MSU students, including mentoring and working with more than thirty doctoral students.

He is survived by his beloved wife Paula; his son Peter (Lauren), St. Louis, Mo., and their four daughters Haley, Hannah (Thatcher), Julia and Lilly; a daughter Irma (Terry), Okemos, Mich., and their three children, Alex, Emma and Alli; and a son Erik (Becky), Ann Arbor, Mich., and their three children, Peter, Gretchen and Jack.

He also leaves a sister Henriette, a brother Martin (Mariette), and many nieces and nephews living in The Netherlands.

Memorial gifts in his memory can be made to the Agricultural Engineering Endowed Scholarship Fund at A.W. Farrell Agricultural Engineering, Michigan State University, 524 S. Shaw Lane, East Lansing, MI 48824; or the Capital Area Humane Society, 7095 W. Grand River Hwy, Grand Ledge, MI 48906.

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Recent Standards Activities

Proposed Projects

- X211.7, V-belt and V-ribbed Belt Drives for Agricultural Machines
- X584.4, Agricultural Equipment: Speed Identification Symbol (SIS)
- X17225-4, Solid biofuels - Fuel specifications and classes - Part 4: Graded wood chips

New Revisions

- ASAE EP496.3 FEB2006 (R2015) Cor.1, Agricultural Machinery Management
- ASAE EP552.2 MAY2017, Reporting of Fuel Properties When Testing Diesel Engines with Alternative Fuels Derived from Plan Oils and Animal Fats

Press Releases

- April 24, 2017, ASABE Revises Equipment Symbol and Display Standards
- May 11, 2017, ASABE to Adopt Four ISO Standards for Roll-over Protective Structures
- May 17, 2017, ASABE Revises Standard on Alternative Fuels for Diesel Engines
- May 17, 2017, ASABE Announces Project to Adopt ISO Wood Chip Fuel Standard

For a complete listing of ASABE Standards project activities, including recent press releases, click [here](#).

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