

American Society of Agricultural and Biological Engineers



Inside ASABE

News for and about ASABE members

July 31, 2017

Forward this email

In This Issue:

- [From the Executive Director](#)
- [Your Input Requested: ASABE Mission and Vision Statements](#)
- [Financial Incentives Offered for April 2018 Ag/Bio PE Exam](#)
- [IPC Elects New Officer Slate](#)
- [AE50 Nominations Now Open](#)
- [Educational Aids Blue Ribbon Winners Announced](#)
- [Seven Inducted to Order of the Engineer](#)
- [Ethics Competitions Winners Announced](#)
- [2017 Digital Media - 2017 ASABE Standards](#)
- [Speaking of Spokane: Wrapping up the 2017 Annual International Meeting](#)
- [ASABE Member Roster Advertising - Deadline October 2, 2017](#)
- [ITSC Names Outstanding Papers](#)
- [2017 Standards Development Awards](#)
- [Conference Leadership Recognitions](#)
- [VisualChallenge7](#)
- [Hellbusch Elected to Nebraska Hall of Agricultural Achievement](#)
- [Recent Standards Activities](#)

Welcome
New
Members

June
2017

Click to see who's
joined
your network of
colleagues

From the Executive Director

The 2017 Annual International Meeting (AIM) in Spokane has energized us, as the AIM always does. We knew it would be a great meeting, but we didn't anticipate that attendance would rival that of the 2016 AIM, in Orlando. Of the 1,711 attendees, nearly half were younger than 35, and almost a quarter were international, representing 32 countries. ASABE last met in Spokane 24 years ago, and Past Presidents Doug Bosworth and Norm Scott reminisced about the changes in Spokane since they exchanged the presidential gavel there. This year, past president Maynard Herron turned the gavel over to incoming president Steve Searcy.

If I had to pick a favorite event from the AIM, it would be the keynote address by Ambassador Ken Quinn, president of the World Food Prize. Ken's theme was "where the road ends, humanity's troubles begin." His 30-plus years as U.S. ambassador to Cambodia give him a unique perspective on how basic infrastructure, such as good roads, can change lives. Roads connect people,

facilitate transport, provide economic opportunities, and enable access to healthcare and education. His message was something that engineers can act on. Following up on the World Food Prize theme, be sure to read the blog by Ellie Sukup, daughter of past president Charles Sukup, on her time with the [Global Youth Institute](#).



Just today, I was honored to welcome Russell Nichols to ASABE headquarters for a visit. Russell is the great-grandson of ASAE Past President Mark Nichols (1946-1947), and he came to see his great-grandfather's painting, which is proudly displayed in the conference room and shown in the photo at left. The Nichols family presented the painting to ASABE in June 2011. Members Bob Schafer, Paul Turnquist, Clifford Flood, and Jimmy Butt were on hand for that occasion, and we recognized

Dr. Nichols' for his legacy in soil dynamics as well as in art. Next time you're at headquarters, take a moment to admire this legacy.

Darrin J. Drollinger
Executive Director

[Back to top](#)

Your Input Requested: ASABE Mission and Vision Statements

Mission and vision statements are used to state the purpose and scope of an organization and in so doing provide a guide for operations. They answer the questions, Who are we? Whom do we serve, and how? What do we aspire to achieve?

The ASABE Board has drafted vision and mission statements for the Society and would like your input. Consider the following and let us know whether you believe they clearly and adequately describe ASABE.

ASABE Mission Statement
To advance engineering in food, water, energy, and environment.

ASABE Vision Statement
To be the global leader providing engineering and technological solutions toward creating a world with ample food, water, and energy within a healthy environment.

Follow this [link](#) to provide your input to the Board. The deadline for comments is - August 31.

[Back to top](#)

Financial Incentives Offered for April 2018 Ag/Bio PE Exam

Have you ever pondered taking the agricultural and biological engineering PE exam? Would an incentive help influence your decision? ASABE's Professional Engineering Institute, the Dale Wm. Zimmerman PE Fund, and the Board of Trustees have committed funding for two incentives aimed at encouraging members to take our exam. See the exam specifications [here](#).

First-Time Takers: We'll pay your exam application/test fees, up to \$300, for 30 first-time takers of the exam. We'll also give you \$150 to be used any way you see fit. All just for sitting for the ag & bio eng PE exam. This offer is only open to ASABE members who are first-time candidates. A *first-time exam taker* is defined as someone who has not attempted to take a professional engineering exam in any discipline prior to the April 2018 administration.

Repeat Takers: Members who wish to take our PE exam, regardless of any previous exam attempts, in any discipline, will be reimbursed \$150. This offer is available to 30 members on a first-come, first-served basis.

See complete details of both programs [online](#).

Upcoming
ASABE
CSBE/SCGAB
Section
Meetings
and
Other Events

NABEC
July 30 - Aug 2

Texas
October 4-6

Click
for details

Please direct all questions to [Mark Crossley](#).

[Back to top](#)

IPC Elects New Officer Slate



Congratulations to the 2017-2018 International Preprofessional Community (IPC) officer team elected by their peers at the IPC Business Meeting in Spokane. They are the voice of student members within

ASABE and look forward to a busy year.

In photo, from left: president: Grace Skarlupka, University of Wisconsin–Madison; 1st vice president: Carly Chappel, University of Florida; 2nd vice president: Montana Wells, Oklahoma State University; secretary: Travis Vazquez, Cal Poly San Luis Obispo; parliamentarian: Elizabeth Tedder, Purdue University.

[Back to top](#)

AE50 Nominations Now Open

Do you have an outstanding new product introduced into the market in 2017? It could be an AE50 award winner.

Today's AE50 winners include machines, systems, components, software, and services ranked highest in innovation, significant engineering advancement and impact for the markets they serve.

If you're proud of the product your company has brought to the market this year, consider nominating it for an AE50 award. Learn more [here](#).

[Back to top](#)

Educational Aids Blue Ribbon Winners Announced

Winners of the 2017 ASABE Educational Aids Blue Ribbon awards were recognized during the General Session Recognition and Keynote Speaker program at the Annual International Meeting in Spokane, Washington. The Society extends its deepest appreciation to the following individuals for their outstanding efforts in developing noteworthy educational materials over the past year.

Electronic Delivery

DVDs, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts

- C. Craige, M. Buser, C. Woods, A. Erichsen, B. Adam; "Stakeholder-driven Whole Chain Traceability System for Agricultural Commodities: Beef Cattle Pilot Demonstration"; Oklahoma State University
- R.P.K. Ambrose, G. Mosher, D. Maier; "Training on Prevention of Grain Dust Explosions"; Purdue University

Web Sites

- C. Racz, P. Jones, W. Field, D. Minns; www.agribility.org; National AgrAbility Project, Purdue University

- D. Saraswat, B. Hancock, G. Singh, N. Pai; SWAT Tools - <https://saraswat-swat.rcac.purdue.edu/>; Purdue University, Climate Corp., Monsanto

Publications

Publications—Short (less than 9 pages)

- A. Sharda, J. Fulton, T. Griffin, I. Ciampitti, and L. Haag; “Planter Downforce for Uniform Seed Depth”; Kansas State University
- A. Sharda, T. Griffin, J. Fulton, and J. Slocombe; “Liquid Application Technologies”; Kansas State University
- S. Chattopadhyay, C. Agouridis, J. Fox; “Sediment Fingerprinting”; University of Kentucky

Publications—Medium (9-16 pages)

- D. Sample, J. Owen, J. Fields, S. Barlow; “Understanding Soil Moisture Sensors: A Fact Sheet for Irrigation Professionals in Virginia”; Hampton Roads Agricultural Research and Extension Center, Virginia Tech
- M. Kukul and S. Irmak; “Observed Space and Time Changes in Air Temperatures and Daily Temperature Range for the Counties in the US Great Plains from 1968 to 2013”; University of Nebraska-Lincoln
- P. Jones; “Arthritis and Gardening: A Guide for Home Gardeners and Small-Scale Producers”; Purdue University

Publications—Long (17-32 pages)

None for 2017

Publications—Comprehensive (33 or more pages)

- B. Ortiz, A. Hagan, R. Kemerait, R.S. Tubbs, K. Flanders, J. Langcuster, J. Crickard; “Climate and Crops: Adapting Farming to a Variable Climate”; Auburn University, University of Georgia, Alabama Cooperative Extension System
- K. Genskow, R. Larson, M. Borchardt, T. Burch, E. Ross; “Considerations for the Use of Manure Irrigation Practices”; University of Wisconsin ñ Madison
- L. Christianson, J. Frankenberger, C. Hay, M. Helmers, G. Sands; “Ten Ways to Reduce Nitrogen Loads from Drained Cropland in the Midwest”; University of Illinois at Urbana-Champaign, Purdue University, South Dakota State University, Iowa Soybean Association, University of Minnesota

Extension Methods and Impact

Innovative Extension Methods of Impact Assessment

- P. Busato, R. Berruto, A. Nicholson, F. Zazueta; “Active Learning: the Flipped Classroom Workshop”; University of Turin and University of Florida

[Back to top](#)

Seven Inducted to Order of the Engineer

ASABE's Link of the Order of the Engineer was proud to induct seven new members at its seventh annual ceremony, held at the 2017 ASABE Annual International Meeting, in Spokane.

Engineering students, graduates, and registered engineers accepted the Obligation of the Engineer and a stainless steel ring, which is worn on the little finger of the engineer's working hand. The ceremony was organized and led by Robert Gustafson, with comments made by Dan Thomas, Ann Christy, and Joshua Sander.

The Order was initiated in the United States to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer. The first ceremony was held on June 4, 1970. Many thanks to ED-412 Professional Ethics committee, Young Professionals Community, and the Board of Trustees for sponsoring this event. Congratulations to the 2017 inductees. Click [here](#) to see this year's initiates.

[Back to top](#)

Ethics Competitions Winners Announced

The P-128 Engineering Ethics Competition Committee is pleased to announce the winners of their two competitions—the Ethics Video Challenge and the Ethics Essay.

In a video of five minutes or less, entrants for the Ethics Video Challenge were tasked with describing an ethical issue faced by agricultural and biological engineers in practice or research. The winning videos were used to introduce ethical scenarios at the ethics session in Spokane. We're pleased to announce the two winners: 1st place - Kelsey McDonough and Nicholle Hatton, Kansas State University; and 2nd place - YVR Sashi Sekhar, V. Vamsi Krishna, Cicily Kurian, Archana Nori, and Vishwas Reddy, Indian Institute of Technology, Madras. See the winning videos [here](#).

Open to undergraduate and graduate student members, entrants in the Ethics Essay competition submitted an original essay of up to 1,500 words on an ethics topic impacting the practice of professions related to agricultural and biological engineering, systems, or technology. Three finalists were invited to Spokane to compete in an oral competition held during the ethics session. Congratulations to the top three winners in ascending order: Amelie Sirois-Leclerc, University of Saskatchewan; Sonja Loy, Texas A & M University; and Tyler Smith, Auburn University. See the winning essays [here](#).

[Back to top](#)

2017 Digital Media - 2017 ASABE Standards

The 2017 Standards CD is now available. New for 2017: Responding to technology trends and member preferences, we've also made the yearly standards compilation available on a USB.

The 2017 CD and USB contain 264 current ASAE/ASABE standards, engineering practices, and data applicable to agricultural equipment and systems, irrigation and drainage, structures, turf and landscape equipment, food engineering, and electric power applications.

The collection includes keyword and numerical standard indices, along with a list of active standards development projects and related ISO standards committees.

A limited number of searchable USBs are available, so [make your purchase](#) while supplies last.

[Back to top](#)

Speaking of Spokane: Wrapping up the 2017 Annual International Meeting

To those who were able to join us for the 2017 Annual International Meeting, in Spokane: Thank you for making the 2017 meeting such a success! ASABE staff has received abundant positive comments about the location, keynote speaker, and program. It's always our goal to make the meeting personally enjoyable as well as professionally valuable, and we hope you left Spokane with valuable information and connections, as well as a few nice memories of your trip. We extend a special appreciation to those who travelled internationally and whose participation added global perspective to the conversations that took place. Continue your AIM conversations by staying connected to ASABE on [Facebook](#), [LinkedIn](#), and [Twitter](#).

Attendance at the annual meeting was among the highest in recent years, with more than 1,700 attendees. Many took advantage of the price incentive that in recent years has been bundled with ASABE membership renewals. The discount has become a well-appreciated benefit of early renewal, so watch for details of the 2018 pricing when you receive your dues notice later this fall.

The papers that were presented at the meeting are now available through the [Technical Library](#), so you can reference the valuable presentations and research that make the AIM a must-attend event.

Save the date for the 2018 Meeting, in Detroit: July 29–August 1. We hope to see you there!

[Back to top](#)

ASABE Member Roster Advertising - Deadline October 2, 2017

Advertise your business in the *ASABE Member Roster* for only \$140.

Advertise your agricultural or biological engineering expertise. Published annually in the fall, the print-only member roster, available exclusively to ASABE members, remains a popular publication thanks to its ease of use and rich content. Within its pages you'll find not only contact information for your fellow ASABE members, but a complete listing of committees, including description and appointments organizational and historical details of the Society, like the Constitution and Bylaws, section officers, directories of past presidents and fellows, and a staff directory. For more information visit www.asabe.org/Advertise.

Need to order your 2017-2018 roster? Call 1-800-371-2723 or www.asabe.org/OrderPubs to reserve a copy. \$38 US; outside the US \$45.

[Back to top](#)

ITSC Names Outstanding Papers

The Information Technology, Sensors, and Controls Technical Community (ITSC) Meeting Paper Award competition was established in 1999 to encourage high quality conference papers within the ITSC technical community.

At the 2017 ASABE Annual International Meeting, in Spokane, the following papers and authors were honored for ITSC Meeting Paper Award recognition.

- T. Wen, "A Portable Impedance Immunosensing System for Rapid Detection of Salmonella Typhimurium"
- Y. Jian, "GPhenoVision: A Ground Mobile System with Multi-modal Imaging for Field-based High Throughput Phenotyping of Cotton"

Congratulations to this year's winners.

[Back to top](#)

2017 Standards Development Awards

The following standards projects and their development committees were recognized at the 2017 Annual International Meeting for major contributions in ASABE standards development. The citations below include the committee responsible for the document, with any key contributors listed in parentheses.

- ANSI/ASABE S629, Framework to Evaluate the Sustainability of Agricultural Production Systems; ASE-16, Engineering for Sustainability (Ed Barnes, Marty Matlock)
- ANSI/ASABE S592.1, Best Management Practices for Boom Spraying; MS-23/6/1, Liquid Application Systems (Al Womac)
- ANSI/ASABE S620, Safety for Anhydrous Ammonia Application Equipment; MS-23/6/5, Anhydrous Ammonia Application Equipment, developed by X620 Development committee (Jim Hellbusch and Randy Renze; also, Mark Hanna, Pat Hodges, Ed Kaiser, Ed Kreis, John Lang, Dave Raabe, Judd Stretcher, and Tom Tuttle)
- ANSI/ASABE S626, Landscape Irrigation System Uniformity and Application Rate Testing; NRES-246 Turf and Landscape Irrigation, developed by X626 Development committee (Mike Huck, Jeff Kremecki, Brent Mecham, Tige Procyshyn, Daniel Ransom, Tom Reynolds, Andy Slack, Andy Strother, Sam Thayer, Tracy Tucker, and Brian Vinchesi)

- ASABE/ISO 3767-1:2016, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment—Symbols for operator controls and other displays—Part 1: Common symbols; ASABE/ISO 3767-2:2016, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment—Symbols for operator controls and other displays—Part 2: Symbols for agricultural tractors and machinery; MS-23/14 Machine Symbols, Displays and Manuals

[Back to top](#)

Conference Leadership Recognitions

Every year, ASABE recognizes leadership of specialty conferences. This year's honorees were recognized at the 2017 ASABE Annual International Meeting, in Spokane. With gratitude for their efforts, ASABE congratulates the following Individuals:

- Brian Huenink, chair, Agricultural Equipment Technology Conference (AETC), February 2017, Louisville, Kentucky
- Jane Frankenberger and Gary Sands, co-chairs, Drainage Symposium, September 2016, Minneapolis, Minnesota

[Back to top](#)

VisualChallenge7



When you have a camera in hand this summer, remember the

VisualChallenge7 for images of agricultural and biological engineering.

VisualChallenge is an opportunity to be creative and to show those outside the ABE field: "This is what we do." Use your photo entry to convey the beauty and meaning of your work, your research developments, your technical community, or your "occupational eye."

Submit original work as an email attachment in JPG format (300 dpi or higher) to [Sue Mitrovich](#), *Resource* managing editor, by October 2, 2017. See www.asabe.org/VisualChallenge for details.

Winning entries will be published in the January/February 2018 issue.

[Back to top](#)

Hellbusch Elected to Nebraska Hall of Agricultural Achievement

Jim Hellbusch has been elected to the Nebraska Hall of Agricultural Achievement, for his contributions to the state's agricultural industry.

Hellbusch is president of Duo Lift Manufacturing, a family operation in Columbus, Neb., that designs and manufactures trailers and running gears for agricultural, commercial, and industrial markets in a number of standard and custom models and sizes.

The Nebraska Hall of Agricultural Achievement is nearly 70 years old and has inducted about 220 members. Hellbusch was a driving force in the recently adopted S620, Safety for Anhydrous Ammonia Application Equipment, gathering the necessary industry experts qualified to address safety issues related to anhydrous ammonia equipment.

Hellbusch is the son of company founder, Art Hellbusch. Jim's wife, Connie, is company treasurer, and sons Ben and David are managers. He is a 26-year member of ASABE.

[Back to top](#)

Recent Standards Activities

Proposed Projects

- X502WD, Withdrawal of ANSI/ASAE EP502 DEC1990 (R2012) Adjusting Forage Harvester Test Data for Varying Crop Moisture

New Standards

- ASABE EP621 JUN2017, Guidelines for Calibrating, Validating, and Evaluating Hydrologic and Water Quality (H/WQ) Models
- ANSI/ASABE S640 JUL2017, Quantities and Units of Electromagnetic Radiation for Plants (Photosynthetic Organisms)

New Revisions

- ASAE S211.7 JUL2017, V-Belt and V-Ribbed Belt Drives for Agricultural Machines
- ANSI/ASAE S318.18 JUN2017, Safety for Agricultural Field Equipment

Press Releases

- June 22, 2017, ASABE Withdraws Standard Relating to Mobile Electrical Components
- July 7, 2017, ASABE Revises Agricultural Field Equipment Safety Standard
- July 12, 2017, ASABE Publishes Guidelines for Evaluating Hydrologic and Water Quality

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

[Back to top](#)



Dolores Landeck - Editor
2950 Niles Rd. St. Joseph MI 49085
phone: 269-932-7039
www.asabe.org

Inside ASABE

[Unsubscribe or update your email address.](#)

2950 Niles Rd. | St. Joseph, Michigan 49085 | USA



SubscriberMail