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Biological Systems Engineering
COLLEGE OF AGRICULTURAL & LIFE SCIENCES
UNIVERSITY OF WISCONSIN-MADISON



Welcome from the Department Chair

Dear BSE Alumni and Friends,

I hope that you have been able to enjoy your summer so far. The start of the new academic year is just around the corner, and I am looking forward to the energy the students bring with them as they return to campus and the department.

This summer we wish our department administrator, Sue Reinen, the very best as she retires. Sue has been an integral member of the BSE family for 15 years and while we

are sad to see her go, I know we are all excited for what is in store for her. A special thanks to Sue for all she has done for the department and for working to ensure we are in the best position possible moving forward. Our department has undergone an administrative merger with the Department of Soils and Environmental Science and Matt Hahne has assumed the role of department administrator for both departments. Welcome to Matt – it is great to have him on board and I appreciate his collaborative approach to making this a smooth transition. Also, I am happy to welcome Lydia Scofield who recently joined the department administrative team. Despite all the changes, I know that our faculty, staff, and students are in great hands, and I am grateful to the entire administrative team for their dedication to the department.

I am proud to share the recent accomplishments, awards, and activities of our faculty, staff and students in this newsletter. Congratulations to all our recent graduates – it was great to celebrate with you and your families in May, and we wish you the very best! Looking ahead, we are very excited to host the 2025 ASABE Midwest Regional Rally and to welcome students from across the region to our campus in March.

As always, the generosity of our donors is deeply appreciated. These funds provide us with additional flexibility to support our students and our mission. Thank you!

If you are ever in Madison, please stop by and reconnect.

Enjoy the rest of your summer!
Anita Thompson, Department Chair

Administrative Merger



The Department of Biological Systems Engineering has undergone an administrative merger with the Department of Soil and Environmental Sciences (previously the Department of Soil Science) effective July 1. This merger is one of several administrative mergers taking place in the College of Agricultural and Life Sciences this summer. The merger coincides with the retirement of BSE's Department Administrator, **Sue Reinen**. She started at the UW-Madison in 2009 as a Payroll and Benefits Specialist in the Department.

She then worked briefly as the Financial Specialist before becoming the Department Administrator. Sue is leaving the department after 15 years of faithful service. She has enjoyed working on campus because of the people, the pace, and the cultural diversity. Throughout the years, she has met so many wonderful people from many different backgrounds and walks of life. She is very appreciative of everyone's friendship and willingness to share their traditions.

In retirement, she looks forward to spending time with family, gardening, and some travel. Eventually she would like to spend time volunteering as a tutor. Being a sports lover, she will continue to enjoy all of her favorite teams and sports - Go Badgers, Brewers, Bucks, and Packers!

With this merger, the Administrator in the Department of Soil and Environmental Sciences, **Matt Hahne**, took on the dual administrative role on July 1. Matt began his career at the UW-Madison in 2016 as a Payroll and Benefits Specialist in the Department of Genetics. He became the Administrator in the Department of Soil Science (newly renamed the Department of Soil and Environmental Sciences) in 2021. He received his bachelor's degree from the UW-Platteville in Business Administration with an emphasis in Management. He held previous positions in retail for 9 years before joining the UW. Matt brings a vast amount of



knowledge, experience, and expertise to his new role.

Matt is excited about this new administrative position and looks forward to getting to know the faculty, staff, and students in BSE. He works hard to meet the needs of the people he works with and is committed to the success of this new initiative.

During Matt's time off, he enjoys spending time with his family and tries to get out on the golf course when he can. His 2 young sons keep he and his wife, Sharon, busy with the boys' activities and entertaining them at parks.

Welcome to BSE

Administrative Specialist, Lydia Scofield

Lydia Scofield is originally from southern Nebraska and moved to Wisconsin in 2008, where she received her Bachelor's Degrees in Legal Studies and Political Science from the UW-Madison. Lydia has a breadth of experience spanning from work within HR, talent recruitment and operations, to project management and event planning. Prior to her role at the UW-Madison, she was Head of Operations



for the Greater Madison Chamber of Commerce where she served as Board Liaison to 49 Directors, managed HR systems, a large-scale VR talent recruitment project and a platform for diversity, inclusion, justice, and equity. Lydia is also Co-founder and Chief of

Development for a local end-of-life and living memorial events planning organization known as Good Mourning. Lydia enjoys adventure, travel, sweet treats, and the humorous side of life.

Department News

Congratulations



Kody Habeck,
Teaching Faculty
ASABE WI Section
Young Engineer Award



Professor Xuejun Pan
Elected Fellow of
American Institute of
Chemical Engineers



Paul Stoy
Promoted to Full
Professor

Diversity in Food Engineering Lunch & Learn



The Department's Equity and Diversity Committee (EDC) hosted a Lunch and Learn titled, *Diversity in Food Engineering*. The April 12 noon event began with a delicious catered lunch by Roll Play, a local fresh-casual Asian cuisine restaurant. The food was excellent and many appreciated the opportunity to try new foods.

BSE PhD student **Derek Ho** gave a brief overview identifying some of the largest crops grown worldwide, highlighting the food processing of crops to create other consumable products, and identified the countries who are the biggest consumers of specific crops.



Guest presenter, Robert Pierce of South Madison Farmers Market shared his life's work to re-engage marginalized communities with healthy and home- or locally grown food. The UW-Madison Food Recovery Network shared information on food waste and recycling initiatives. Students, staff, and faculty in attendance gave the day's event a resounding 'thumbs up.' The EDC looks to host similar events annually and welcome presentation ideas, suggestions, and recommendations.



Outreach to High School and Tech College Teachers through Sky-High Innovation

In June, **Stephanie Prellwitz**, chair of the BSE Advisory Council, **Brian Luck**, and **John Shutske** led a session for Wisconsin science teachers at the Wisconsin Agricultural Education Association's annual professional development session in Oshkosh. This 4-day event had over 350 attendees—primarily instructors in high school vocational agriculture and science programs and technical college instructors. *The BSE event was called Sky-High Innovation: Using Drones (UAVs) and Automation to Transform Water Resource and Farm Machine Engineering.* The focus was on building connections and encouraging educators to integrate emerging engineering-oriented agricultural technologies into their curriculum, fostering a new generation of students enthusiastic about pursuing degrees in biological systems and agricultural engineering. The team discussed current trends and opportunities, and they provided instructors with various teaching objectives, suggested classroom activities, and ideas to engage and excite students. We appreciate the support of the College of Agricultural and Life Sciences, especially Jane Duffstein, assistant dean for undergraduate student recruitment and outreach, who encouraged and supported BSE's involvement!



Haishun Du won the Young Investigator Award



Dr. Haishun Du won the Young Investigator Award from the Division of Forest and Plant Bioproducts in the American Institute of Chemical Engineers (AIChE) to recognize his accomplishments in nanocellulose research. The award will be presented at the 2024 AIChE Annual Meeting, Oct. 27 – 31, in San Diego, California. A dedicated session with 7 invited speakers has been organized in honor of Dr. Du at the meeting. Haishun is a Postdoctoral Research Associate in Dr. Xuejun Pan's lab working on developing innovative engineering materials from lignocellulosic biomass.

Generative AI, LLMs, and other Artificial Intelligence Tools for ASABE Members and the Agricultural Industry

In the last several months, **John Shutske**, BSE professor and agricultural safety and health specialist, has written about and studied numerous applications and use cases for new “generative AI” tools. Applications for biological systems engineering and various agricultural applications and use cases have been described in ASABE publications, including the peer-reviewed Journal of Agricultural Safety and Health and Resource magazine (see photo below). Most recently, Shutske’s work appeared in the Wisconsin State Farmer, a popular state-based trade publication in an article titled: “AI is a game-changing technology that could change the world of agriculture.”

This article presented five specific use cases that can be used immediately by any producer with some baseline understanding of AI use, including free and low-cost tools like ChatGPT and other commercial products. Shutske is developing easy-to-follow tutorials for the agricultural industry and hopes to have materials ready by late 2024. Links to these articles can be found at:

Wisconsin State Farmer: <https://www.wisfarmer.com/story/opinion/columnists/2024/03/27/ai-tools-and-software-now-accessible-at-little-or-sometimes-no-cost/73101454007/>

ASABE Resource Magazine: <https://www.asabe.org/Portals/0/aPubs/Resource/PDF/Resource31-02MarApr2024.pdf> (pages 4-7)

ASABE’s Journal of Agricultural Safety and Health: <https://uwmadison.box.com/v/AgSafetyHealthLLM>



Generative AI

A game changer for ASABE professionals

John Shutske

ChatGPT. Copilot. Bard. Llama2. Grok. What is all this crazy new technology that seems to have taken on a life of its own in the last two years? Generative artificial intelligence (AI) is here to stay, and it will play a big role in our lives in the coming decades.

Generative AI—in the form of “large language models” and other tools used to compose or evaluate human language, visual information, and even audio content—will influence our work, whether in engineering, education, outreach, safety, or information technology. These tools will be applied to the grand challenges that are the technical focus of ASABE members and their colleagues in plant, animal, machinery, natural resource, and processing systems. This article presents an overview of generative AI and some of the potential uses and pitfalls that we will need to contend with.

Last October, I published an article in ASABE’s *Journal of Agricultural Safety and Health (JASH)* that describes several uses of AI that I believe are important based on a review of the current literature and published practice. I’ve been incorporating several of the cited examples into my routine workflow, and I’m evaluating others for their potential use in my research. In my *JASH* article, I also describe some of the issues that we need to be aware of as we apply this technology.

Similarly, image-generating AI tools are prompted to produce an image that the user can then include in a social media post, presentation, technical document, advertisement, or other situation where such an image is needed. AI tools can also generate audio data, such as a synthesized voice that can read aloud to be used for podcast content, news reports, or audiobooks.

The details of how these models work are beyond the scope of this article but are well-described in the book *What is ChatGPT Doing...and Why Does It Work?* by computer scientist and physicist Stephen Wolfram.

To work effectively, generative AI models require huge amounts of training data. In the case of LLMs, the most popular models have been trained on millions or even billions of books, websites, transcribed audio and video, and other language-based data. Experts in AI often explain that these models respond to a user prompt by statistically predicting the next word or phrase that would most likely be found in the model’s training data as it assembles a response. The probabilities, rules, statistical models, and methods used to structure the training data and generate replies vary by model.

What are multi-modal models?

In my work in agricultural safety, decision safety, and edu...

Jiansong Chen wins Graduate Student Award



Jiansong Chen, second from left

Jiansong Chen won the Graduate Student Award at the 7th International Conference on Nanogenerator and Piezotronics (NGPT 2024) held on May 19–23, in Madison, Wisconsin. His presentation at the conference was titled, *Chemical functionalized cellulose films for high-performance triboelectric nanogenerators in energy harvesting and self-powered sensing*. Jiansong is a PhD Student in Dr. Xuejun Pan's lab, working on functionalized materials from lignocellulosic biomass for energy, sensing, and environmental applications.

Climate Change and Agriculture: Air, Water, Soil

Dr. Mallika Nocco represented 'water' as one of three panelists who provided a primer on climate change, agriculture, and water to >80 journalists through SciLine. SciLine is a free service for journalists and scientists based at the American Association for the Advancement of Science (AAAS), the world's largest multidisciplinary scientific society. Journalists are able to use the briefing for background stories or pull quotes directly from the briefing for use in media.

[AAAS SciLine Briefing \(4/9/24,'Climate Change and Agriculture: Air, Water, Soil'\)](#)

BSE's Work to Engage Wisconsin Health Professionals in Agricultural Safety and Health Continues



Production agriculture in Wisconsin remains the state's (and nation's) most deadly industry by a long shot. Farmers and farm workers face a range of severe health challenges connected to various hazards in their working environment. This includes gases, dust, chemicals, noise, skin cancer, and hearing loss. Many immigrant workers, who are doing an increasing share of ag-related work in Wisconsin, are significantly underserved and also lack access to

affordable and accessible healthcare services and education.

Despite the closure of the UW Center for Agricultural Safety and Health in 2022, one of that center's primary activities—engaging the state's doctors, medical residents, medical students, nurses, and other primary healthcare professionals and supporting efforts to promote health and safety with workers and families continues through new

and restructured partnerships with the School of Medicine and Public Health, the Wisconsin Academy of Rural Medicine, and SMPH's Rural Health Equity Track. **Dr. John Shutske** has been leading these types of efforts in his work both in Wisconsin and Minnesota since 1990. He's led educational programs and supervised research with students and health professionals on a range of topics, including child safety, pathogen protection, "best practices" for tractor and machinery operation, emergency preparedness, and antibiotic resistance. Shutske's current and recent research work has included medical students and others studying veterinary medicine, public health, data science, and engineering. In July, Shutske led an educational workshop as part of training for approximately 25 medical residents and students with colleagues from SMPH on fundamental issues connected to health and injury prevention among at-risk groups in Wisconsin. The session was held at Alsum Farms & Produce in Arena, Wisconsin – one of the largest producers of potatoes, pumpkins, and other products statewide. This work is supported by many vital partnerships and collaborative efforts.



Does California Wine Use too much Water?

Drought-prone California struggles to balance its water resources with the demands of its agricultural industry. **Dr. Mallika Nocco** recently spoke with senior wine critic Esther Mobley about the irrigation requirements for wine grapes, sources of water used for irrigation, irrigation used for frost protection, and how to increase wine grape sustainability under climate change and shifting water policies.

Interestingly, grapes are one of a few crops that can actually improve quality while undergoing water stress, and therefore some grape growers actively pursue deficit irrigation. Some believe this practice leads to a higher concentration in flavors. Nocco adds, "I don't think we see as nuanced irrigation management in any other crop as we do with wine grapes."

Despite the needs of water resources within the agricultural industry in California, Nocco noted that there needs to be a reduction in the amount used. "It's going to

happen in the next two decades,” said Nocco, “That will dramatically shift what we grow in California.”

San Francisco Chronicle (6/6/24, 'Does California wine use too much water?')

Research in the Rotunda

This past March marked the 20th year that Research in the Rotunda at the Wisconsin State Capitol provided UW-Madison students the opportunity to present their research findings, ideas, and discoveries with policymakers. The presentations from the 160 student participants addressed topics such as heat stress in cattle, maintaining a robust annual harvest of walleye, and filling gaps in the care received by older veterans. These students work with faculty and graduate student mentors tackling a wide range of Wisconsin issues highlighting the UW’s commitment to the Wisconsin Idea.

Third-year BSE student, **Trey Standiford**, shared his research project, *Developing a Wireless Wearable Localization System to Monitor Dairy Cattle Heat Stress Related Behaviors in Real Time*. Standiford explained, “My research aims to address the growing problem of heat stress in the dairy industry by using methods that dairy producers can easily adopt. This research could significantly improve animal welfare in dairy operations. Comfortable cows produce more milk - and who doesn’t like seeing happier cows?”



BSE student Trey Standford describes his research project to Charles Steiner, interim dean of UW-Platteville's College of Business, Industry, Life Science and Agriculture. Photo by Jeff Miller

1/4 Scale Tractor Team Excels



Back row (left to right): Simon Shelley, Kody Habeck, Devin Digman, Zach Woodworth, Brian Luck, Kaedyn Peterson-Rucker
Front row (left to right): Brandon Boyd, Nathan Sorenson. Not pictured: Benjamin Lobl



The ASABE ¼ Scale Tractor Team did an amazing job this year at the international competition in Peoria, Illinois. The team finished 6th overall (an improvement of 6 positions from last year) out of 21 teams from the US and Canada. They finished 2nd in durability, 2nd in maneuverability, 6th in the tractor pull event, 7th in design judging, and 5th in the team presentations. On top of that, they received the Best Appearance Award which was voted on by all of the participating schools and the Best Craftsmanship Award voted on by the judging committee. Overall, in the performance events

(maneuverability, pulls, and durability) they placed 2nd. **Dr. Brian Luck** and **Kody Habeck**, tractor team advisors could not be more proud of this group of students. Team members include **Brandon Boyd**, **Devin Digman**, **Benjamin Lobl**, **Kaedyn Peterson-Rucker**, **Simon Shelley**, **Nathan Sorenson**, and **Zach Woodworth**.



Drop Nozzles Below Soybean Canopy Makes an Impact

Dr. Brian Luck shared news of his 2-year study of fungicide applications using drop nozzles below the canopy with Brownfield Ag News reporter, Larry Lee. Luck shared the project's success in preventing white mold from developing, "What we're finding is basically, drop nozzles are helping out, getting the fungicide where it needs to be, maintaining yield, and basically improving effectiveness of the fungicides we're applying for white mold."



Brownfield Ag News reporter Larry Lee interviews Dr. Brian Luck. Photo courtesy of Brownfield Ag News.

Luck pointed out that dragging drop nozzles through the canopy at R-3 could cause problems, even though researchers were careful when placing the nozzles. Whether the nozzles can hold up under normal, large-scale applications is not clear. This opens up the idea of engineering light guards that could be placed in front of the plastic nozzles. Funds to take on this next phase of development will be needed.

Runge to participate in Big Ten Academic Alliance Professional Development Program

The Office of the Provost have sponsored two CALS faculty to take part in 2024-2025 Big Ten Academic Alliance professional development. Katrina Forest, professor and chair of bacteriology, has been selected to participate in the Department Executive Officer Seminar. **Dr. Troy Runge**, professor of BSE and associate dean for research, has been selected as an Academic Leadership Program Fellow.



The Academic Leadership Program is an academic-year fellowship to develop the leadership and managerial skills of faculty and executive-level staff. The program includes a mix of virtual and in-person sessions, including three seminars hosted at different Big Ten institutions. In addition, the UW–Madison fellows meet biweekly on campus with current university leadership.

Alumni News

Alumnus Ning Li made a Breakthrough in Lignin Research

Dr. Ning Li developed an innovative process to produce biobased bisphenols, the feedstock for polycarbonates, epoxy resins, and vinyl ester resins currently produced from petroleum, from lignin in wood with the co-production of high-grade pulp for cellulose products and hemicellulose-based chemicals. The research paper was published in *Nature* (2024, 630, 381–386). Prof. Xuejun Pan and Prof. John Ralph are co-authors of the paper. Ning graduated with a PhD degree in 2018 under the supervision of Prof. Pan. He won the Wisconsin Distinguished Graduate Fellowship Award in 2017.



ASABE Student Chapter: Year in Review

What is ASABE?

The UW-Madison Chapter of the American Society of Agricultural and Biological Engineers (ASABE) is a pre-professional student organization that welcomes students interested in agriculture, food, and biological systems. The club's primary focus is facilitating connections and fostering relationships between students, faculty, and industry professionals. This engagement allows students to explore the multitude of opportunities available to them, establish contacts with professionals in industry and academia, and build networks that may be beneficial when seeking future employment. Throughout the semester, the club organizes monthly meetings with industry speakers, social events, fundraisers, and service opportunities, creating a platform that encourages students to get to know their peers and the department faculty. Through involvement in ASABE, students can gain valuable insights into the industries they are interested in, while simultaneously developing important life skills like leadership and teamwork.

Connecting with Wisconsin ASABE Section Members at Winter Section Meeting

In February, ASABE college chapter members from across the state and Wisconsin ASABE Section Members connected at the Winter Section Meeting hosted at UW-Madison. Attendees toured the Meat Science Varsity Meats facility, learned about graduate school opportunities at UW-Madison, received free headshots and resume reviews, and enjoyed a delicious meal from Mooyah! The night concluded with an update meeting from the Wisconsin ASABE Section.



We enjoyed connecting with BSE alumni and Wisconsin ASABE Section Members in various sectors of the agriculture engineering industry.

Making Memories at Midwest Regional Rally 2024 & HOSTING IN 2025!

In March, nine UW-Madison ASABE members attended the 2024 Midwest

Regional Rally (MRR) hosted by the University of Illinois at Urbana Champaign. Industry tours of the different pathways in BSE were offered for members to learn about the variety of opportunities in the industry. Members socialized and networked with other ASABE members within the Midwest region and learned about their experiences within ASABE and biological/agricultural engineering.



Fun memories were made this year, and we are very excited to have been elected as the 2025 hosts of MRR! Our members, **Riley O'Flanagan** and **Sam Anhalt**, pitched the idea of UW-Madison serving as the 2025 host to the MRR 2024 attendees who then voted on the most qualified host. This summer, UW-Madison ASABE members **Brigid Hellerand** and **Ashley Butkus** will be attending the ASABE Annual International Meeting (AIM) in July to gain insight and experience to lead the planning of MRR 2025 with our third MRR Co-chair **Riley O'Flanagan**. We greatly appreciate the generosity of the **Knapp Bequest Committee** for their \$8,900 grant that will allow us to host a fantastic MRR 2025!



Sharing BSE with the Community at Engineering Expo 2024

In April, over 15 ASABE members and BSE faculty volunteered at the 2024 Engineering Expo! We shared insight into the three pathways of BSE: natural resources/environmental, food/bioprocess, and machinery systems through our interactive booth. Our booth featured an Arduino-controlled hydroponics system, a ¼-scale tractor from the Quarter-Scale Tractor Team, and freshly popped popcorn! We love having the opportunity to connect with the community and inspire future generations of engineering students. A huge thank you to all of the BSE students and faculty who helped bring our booth together!



Celebrating Members at the ASABE Spring Wisconsin Section Meeting



April was a busy month for our ASABE members and the BSE department! At the ASABE Spring Wisconsin Section Meeting, two amazing BSE students and one of our dedicated BSE faculty members were recognized for their hard work and passion for BSE!

Lindsey Blanchfield was named the BSE Student of the Year, **Collin Klaubauf** was named the BSE Graduate Student of the Year, and **Kody Habeck** was named the Young Engineer of the Year! Congratulations again!

Speakers and Socials

Throughout the semester our ASABE chapter held monthly meetings to keep members informed of upcoming events and to bring in industry speakers to share their career paths and experiences. In April, members heard from the knowledgeable Ketty Clow from the Chippewa County Land Conservation & Forest Management! She shared an inside look into the programs and software she uses including ArcPro for the diverse range of natural resource/environmental projects she works on. Also, we held an agriculture trivia night during CALS week and our annual spring end-of-

semester grill-out complete with some friendly games of cornhole!





Thank you to our 2023-2024 Officer Team

Thank you to our 2023-2024 UW-Madison ASABE Officer Team for all of their hard work, dedication, and leadership! A special thank you to outgoing President **Jaya Suneja** for her guiding leadership and our always enthusiastic advisor **Dr. Luck** for the countless hours and effort he has put into ASABE over the years! The 2023-2024 ASABE Officers include **Jaya Suneja** (President), **Seeham “Cece” Bnyat** (Vice-president), **Lindsey Blanchfield** (Treasurer), **Eden Britt (Secretary)**, **Riley O’Flanagan** and **John O’Neill** (Fundraising), **Paulina Baker** (Social), **Sam Anhalt** (Public Relations), **Cami Guelig** and **Emma Farrell** (Community Outreach), **Chloe Sroga** (CALs Representative), **Collin Klaubauf** and **Micah Robinson** (Graduate Student Representatives).

Welcoming our 2024-2025 Officer Team and Advisor

We welcome **Dr. Matt Digman** as he steps into the ASABE Advisor role along with our 2024-2025 Officer Team listed below! We cannot wait for the upcoming year!

President: **Sam Anhalt**
Vice President: **Lindsey Blanchfield**
Treasurer: **Chloe Sroga**
Secretary: **Cami Guelig**
Fundraising: **Eden Britt; Emma Corrado**
Social: **Abby Serdyski**
Public Relations: **Sophia Krupka**

Community Outreach: **Tess Schueller**
CALs Rep: **Sylvia Neddermeyer**
MRR Co-chairs: **Riley O’Flanagan**
Ashley Butkus; Brigid Helle
Grad Student Reps: **Jaya Suneja; Paul Lema**

Recent Graduates

Biological Systems Engineering - Bachelor's Degrees

,Anderson, Madeline

Aviles, Sergio Luis

Baker, Paulina Leila

Bnyat, Seeham Roula

Busch, Carter Lee

Larson, Owen Henry

Laubenstein, Maxwell Coen

Le, Thao Thi Phuong

Lema Paul Amauta

Lundstrom, Jens

Ly, Nilroth

Manoharan, Meera

McDonald, Cade Branden

Moda, Victoria

Ray, Carter William

Scheel, Graham Alexander

Shelley, Silmon Whitney

Suneja, Jaya Marguerite

Warmka, Joshua Thomas

Biological Systems Engineering - Master of Science Degrees

Dukes, Elisheva (Advisor: Prof. John Shutske)

Jamieson, Zachary (Advisor: Prof. Troy Runge)

Kluge, Zachery (Advisor: Prof. Matt Digman)

Biological Systems Engineering - Doctor of Philosophy

Ho, Derek (Advisor: Prof. KG Karthikeyan)

Our Donors (December 2023 - May 2024)

- Joshua Bacon
- Keith Behling
- Gerald and Kay Bizjak
- Robert and Linda Brown
- CNH Industrial America, LLC
- Kevin and Anita Connors
- Patricia and Calvin Cramer
- Timothy and Vy Dittrich
- Charles and Joan Dorgan
- Edgardo Ortiz-Reyes and Erika Rodriguez Melendez
- James and Carole Peterson
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- Hjalmar Bruhn Charitable
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- Brad Kuczumarski
- David and Marlese Lindsay
- Brandon Nigon
- Mallika and Alec Nocco
- Barbara and Ronald Schuler
- John and Kathleen Shutske
- Rakesh and Sunita Singh
- Richard Stowell
- Paul Stoy and Amy Trowbridge
- Craig and Melissa Sylte
- Anita and Eric Thompson
- Thrivent Charitable Impact &
Investing
- Tompkins Industries
- Brian Van Horn
- Scott Waletzko
- Rene and Todd Wehler
- Shane and Amanda Williams
- Bryan Yanke



Support BSE

We are sincerely grateful to our friends and alumni who continue to support our department through generous donations. These gifts help support our faculty and students through education, training, outreach, and research. Interested in joining other alumni, friends, and co-workers in supporting the BSE mission? Click the link below to learn more.

[Learn More](#)

Questions about giving? Call Scott Fletcher at the UW-Foundation at 262-352-2456

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University of Wisconsin-Madison | College of Agricultural and Life Sciences |
Biological Systems Engineering

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