

Message from the DH Kari Babski-Reeves

ISE in Spring 2024

The 2023-2024 academic year was a terrific one for ISE. Our enrollment grew again (370 total students), EXE enrollment is now over 50 and approaching 60, ASEE research expenditures were \$9M for fiscal year 2024 and we were successful in hiring two new faculty, who I will introduce you to in the Fall. We had a great ABET visit led by Dr Strawderman. Faculty, staff, and students alike were recognized at all levels for their exemplary achievements, which you will be able to see a bit later in this newsletter. We also welcomed Ms. Sydney Carver to the front office, and she has been doing an amazing job. I am honored and humbled to serve as the Head of this amazing department. The faculty and staff are looking at ways to grow and change the department and I'm looking forward to the next academic year with each of you. Have a wonderful and safe Summer! **Hail State!**

Taking Care of What Matters in ISE

PhD Student Prestigious NSF GRFP Award

Dongmin “Ethan” Kang – a 2023 MSU graduate and first year MSU doctoral student – is one of five Industrial Engineering National Science Foundation Graduate Research Fellowship Program’s recipients this year. He is also among the five MSU students awarded this honor. This fellowship “recognizes outstanding prospective and current graduate students who have demonstrated the potential to be high achieving scientists and engineers, early in their careers.” Ethan’s proposed research aims to advance the field of 3D Printing or Additive Manufacturing (AM) by creating multiple frameworks that manage large volumes of diverse AM process data. Kang says, “It is my utmost honor to receive this Fellowship. The funds allow us to not only financially support the first three years of my doctorate, but also provide us the freedom to evaluate our frameworks with more process data collected from other types of 3D printing innovations. By the end of the fellowship, I aspire to have initial solutions published that help universities, research centers, and interested businesses reach their goals of implementing AM as a critical manufacturing process in their value chains. I also hope this research makes AM accessible to more age groups and to more backgrounds and cultures.”



IISE Student Chapter Hosts IISE Southeast Regional Student Conference

March 21-23 welcomed students and faculty from all over the southeast US and Puerto Rico to participate and compete in the 2024 Southeast IISE Regional Student Conference. The keynote speaker was John Behrends, Project Manager from FedEx. Other notable speakers included Dr Janis Terpenny, from IISE and current NSF Program Director, Ken Pittman from DHL North America, Burt Adkison and Kyle Pearson from Ingall Shipbuilding, and Joe Beard, III, Matt Feller, Madie Montoya, and Walking Wing from Michelin North America. Student winners included Owen Smith, MSU IE student (best paper), Bates Bennet (MSU IE student—poster winner) and Abdur Rahman (MSU ISE student—poster winner). Students participated in social and networking events, plant tours, career readiness workshops, and more. A very special thank you to the IISE Student Chapter planning



committee (Dylan Freeman, Josh Eakes, Kate Tabor, Grace Braddock, Aaron Williams, and Matthew Meadows) and the faculty advisors (Dr Meg Tian and Dr Junfeng Ma). MSU was very well represented, and the event was a tremendous success.

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Other news and notes

A very special thank you to my outgoing ISE Reps: Demia Bland (Fall 2023), Ty Adema, and Claire Meeks. I loved every single minute of it! Thank you for everything. Please keep in touch and come back often!

Congratulations to Dr Reuben Burch for being named Associate Vice President for Research and Economic Development. You will be missed!

We are pleased to welcome Sydney Carver as Administrative Assistant for the ISE department. She is the primary lead for purchasing, student hires, and travel, among other things.

Student Kudos

- Emily Shand, BS student, was inducted into the **BCoE Hall of Fame**.
- Abdur Raham, PhD student, has been selected as a finalist for the **IISE Data Analytics & Information Systems Division Best Student Paper**, and the winner will be announced in May at the IISE Annual Conference in Montreal. He was also selected as an IISE Future Faculty Fellow.
- Will White, BS student, won the 1st annual **MSU Libraries Research Award** in the UG research symposium for his presentation, "Tamburlaine's Victims: The Other Side of Religious Violence", mentored by Dr Eric Vivier in English.
- Rahul Sah, BS student, won the **Al Wurz Scholarship** from the Materials Handling Education Foundation for the 2024/2025 school year.
- ISE Graduate Student awards:
 - **Outstanding Graduate Student Researcher** (distance): Jeanne-Marie E. Lawrence
 - **Outstanding Graduate Student Researcher** (on-campus): Mahathir Mohammad Bappy
 - **Outstanding Graduate Teaching Assistants**: Christian Zamiela and Emily Grondin
 - **Best Publication**: Durant Fullington (Durant Fullington, Linkan Bian, and Wenmeng Tian. (2023) "Design De-Identification of Thermal History for Collaborative Process-Defect Modeling of Directed Energy Deposition Processes." *Journal of Manufacturing Science and Engineering*, 145(5). <https://doi.org/10.1115/1.4056488>)
- Durant Fullington, PhD student, won the **INFORMS 2023 Judith Liebman Award** for outstanding achievements.
- ISE INFORMS student chapter recognized as **Cum Laude**.
- Tyler Lowe, MS student, had his paper recognized as a **Superior Award Winner**, (Tyler Lowe, Jason Street, Brian Smith, James Wooten, Brian Mitchell, El Barbary Hassan, Islam Elsayed, "Wood Pellet Production with the Inclusion of Rice Hull Derived Bio-oil," *Applied Engineering in Agriculture* 38(6): 903-915).

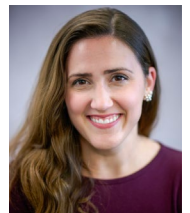
Faculty Kudos

- Drs Strawderman, Smith and Johnson were selected as the winners of the **IISE Award for Technical Innovation in IE** for the Engineering Leadership Excellence (EXE) Program, the dual degree with BBA.
- Dr Brian Smith elected IISE Technical Vice President **and** the **2023 ASEM Frank Woodbury Special Service Award for Excellence** in service to the Society.
- Dr Lesley Strawderman recognized for her contributions as an **ABET evaluator** by the Engineering Accreditation Commission (EAC)
- Dr Meg Tian was awarded the **2024 Outstanding Young Manufacturing Engineer Award** of SME.



Alumni Kudos

- Derek Starling was recognized as ISE's Distinguished Fellow.
- Missie Smith recognized as Reveille 25 Honoree for 2024.



if you have ideas and suggestions for content, please send them to Dr Babski-Reeves (Dr B) at kari@ise.msstate.edu.
