

FYEE 2023 Conference at a Glance

*All times are Eastern Daylight Time (EDT)

Sunday July 30, 2023	Event	Corresponding Author	Location
2:00PM - 8:00PM	Registration	Corresponding Author	ZEC 1st Floor
2:30PM - 4:00 PM	S1A: Workshop I		ZEC 377
	Workshop on Engineering First-Year Holistic Support to Succeed Model	Lisa Lampe	
	S1B: Workshop II		ZEC 277
Interfacing MATLAB with Sphero Robots for an Introduction to Programming Class–Part 1	Joshua Fagan		
4:00PM - 4:15PM	Networking Break		ZEC 178
4:15PM - 5:45PM	S2A: Workshop III		ZEC 378
	Tips for Top Tier Team Teaching	Todd R Hamrick	
	S2B: Workshop IV		ZEC 377
	Building Bridges (but not with balsa wood) through Scalable Engineering Design Process Lessons	Betsy Chesnutt	
	S2C: Workshop V		ZEC 277
Interfacing MATLAB with Sphero Robots for an Introduction to Programming Class–Part 2	Joshua Fagan		
6:00PM - 8:00PM	Welcome Reception <i>Please join us for heavy hors d'oeuvres, lawn games and a casual time to get to know others in the First Year Programs community.</i>		ZEC First Year Design Studio/ Outside Quad

Monday July 31, 2023	Event	Corresponding Author	Location
7:00AM - 12:00PM	Registration		ZEC 1st Floor
7:30AM–5PM	Exhibit Hall Open		First Year Design
7:30AM - 8:30AM	Breakfast		ZEC 178
8:00AM - 8:30AM	Welcome		
	Rachel Ellestad <i>FYEE 2023 Local Chair</i> Dean Matthew Mench <i>Dean, Tickle College of Engineering</i>		
8:30AM - 9:00AM	Keynote 1: Dr. Krystyne Savarese <i>A Culture Where Students Thrive: Wellbeing at the University of Tennessee, Knoxville</i>		
9:00AM - 9:15AM	Transition Break		

FYEE 2023 Conference at a Glance (cont.)

Monday July 31, 2023	Event	Corresponding Author	Location
9:15AM - 10:30AM	S3A: Work in Progress I <i>It All Begins With a Solid Foundation</i>		ZEC 378
	Varying the Design Experience in First-Year Engineering	Kathleen A Harper	
	Integrating Computation within an Engineering Physics Course	Darren K Maczka	
	Engineering Education after ChatGPT	Howard L Richards	
	A 3D-printed speaker and audio system project for teaching interdisciplinary engineering design	Brian Scott Krongold	
	Opening the First-Year Design Project	Nathan M. Hicks	
	Introducing a research project to a First-year Mechanical Laboratory Course	Gloria Guohua Ma	
	How to Interview the Crowd: Enlisting Informal Student Feedback in a Formative Assessment Process	Natalie C.T. Van Tyne	
	Sustainability and Life Cycle Assessment in Engineering Curriculum	Lauren H. Logan	
	MATLAB WebTA, Enhancing the bigger picture through human factors.	Laura Albrant	
	S3B: Work in Progress II <i>How Do I Get Them? How Do I Keep Them?</i>		ZEC 377
	Impact of Peer Mentor Program on First Year Engineering Students Success	Kenneth Reid	
	A focus on well-being to increase non-calculus ready students' problem-solving self-efficacy	Erin McCave	
	Investigation of Recruitment Communication Channels and Student Awareness of an Engineering Bridge Program via Cross-Disciplinary Collaboration	Xinyu Zhang	
	Using an Elevator Pitch Competition to Introduce Engineering Students to Entrepreneurship	Lizzie Santiago	
	The First-Year Engineer's Learning Journey	Amber Kempainen	
	Development of Career Preparation and Portfolio Modules in a First-Year Engineering Course	Victoria Bill	
	Developing a Virtual Peer-Facilitated Workshop Experience for First-Year Engineering Students - A Comparative Study of Online and Face-to-Face Engagement	Dan Burleson	
	Developing a First-Year Experience Professionalism Certificate for Engineering Students: Strategies and Structures for Enhancing Career Engagement	Dan Burleson	
How Professional Networking Impacts Outcome Expectations and Choice Goals in a First-year Engineering Course	Evelyn Walters		

NOTE: For these sessions, we will start in separate rooms where authors will give a short pitch of their work in progress. After pitches are complete, the rooms will be combined for one larger digital poster session.

FYEE 2023 Conference at a Glance (cont.)

Monday July 31, 2023	Event	Corresponding Author	Location
10:30AM - 10:45AM	Networking Break Intro to NSF RIEF Program <i>Matthew Verleger - NSF Program Director, ENG/EEC</i>		ZEC First Year Design Studio
10:45AM - 12:15PM	S4A: Workshop VI		
	<i>SPONSORED</i> eGrove Education, Inc.: Spatial Visualization and Sketch Training in First Year Engineering to Increase De- sign, Teamwork, and Technical Communication Skills	Lelli Van Den Einde Lizzy Cowan	ZEC 378
	S4B: Workshop VII		
	Democratizing and Demystifying Engineering for All: A work- shop to help you bring e4usa to your campus	Kevin Calabro	ZEC 377
	S4C: Workshop VIII		
	Why on earth do I have to take a class in [fill-in-the-blank]?	Stephany Coffman -Wolph	ZEC 277
12:15PM - 2:00PM	Lunch Focus on Exhibits		ZEC First Year Design
1:15PM – 2:00PM	Tours of First Year Design Studio, Kao Innovation and Collaboration Stu- dio and EF Active Learning Classrooms <i>TCE and EF Faculty and Staff</i>		
2:00PM - 3:30PM	S5A: Workshop IX		
	<i>SPONSORED</i> MathWorks: Meeting Students where they are: Accessible and Effective Learning with MATLAB and Simulink	Jon Loftin	ZEC 378
	S5B: Workshop X		
	Flipping Across the First Year Workshop	Rachel McCord Ellestad	ZEC 377
	S5C: Workshop XI		
	Making Patterns, Breaking Patterns - Applying ethnographic system mapping and analysis to support your group's culture	Courtney June Fa- ber	ZEC 277
3:30PM - 3:45PM	Networking Break		First Year Design

FYEE 2023 Conference at a Glance (cont.)

Monday July 31, 2023	Event	Corresponding Author	Location	
3:45PM - 5:00PM	S6A: Full Paper <i>Out with the Old, In with the New</i>		ZEC 378	
	An Immersive Approach for First-Year Engineering Students	Alexander Campbell		
	Introducing Machine Learning to First Year Engineering Students	Joshua Eron Stone		
	Exploring the Impact of ChatGPT on a First-Year Engineering Design Course	Kevin Calabro		
	A multi-faceted Model to Enhance Engineering Student Success	Derin Ural		
	Implementation of Course Structure in STEM Courses for Student Motivation and Learning, and Lab Innovation	Muzammil Arshad		
	S6B: Full Paper <i>One Size Does Not Fit All</i>		ZEC 377	
	Engendering Engineering Inclusion through an Interactive Theatre Sketch	Robin A.M. Hensel		
	Incorporating Academic Coaching in First-Year Engineering Program to Support Student Success and Persistence	Aysa Galbraith		
	Engineering Catalyst: An Alternate Supported Path to the Same Destination	Susan E. Walden		
	A Pilot Study: Undergraduate Teaching Assistants Fostering Engagement, Inclusion and Belonging in Engineering	Tameka Sharona Clarke Douglas		
	Engaging First-Year Engineering Students Through Team-Based Design and Peer Review: A Service-Learning Approach	Djedjiga Belfadel		
	S6C: Full Paper <i>Cannot Have Too Much Math!</i>		ZEC 277	
	Where's the Math? A Case for Reconsidering Math in K-12 Engineering Activities	Todd France		
	Promoting First-Year Student Success through the Data-Driven Creation of a Preparatory Engineering Program and an Engineering Math Resource Center	Katherine A Grover		
	Fostering Success in Introductory Calculus through Peer-Led Team Learning (PLTL)	Karen D Alfrey		
	The Impact of Freehand Sketch Training on Engineering Students' Creativity, Communication Abilities, and Spatial Visualization Skills: A Controlled Trial	Nathan Delson		
	5-6PM	<p style="text-align: center;">Break</p> <p><i>Attendees are welcome to either stay in ZEC or return to the Cumberland House during the break.</i></p> <p><i>Buses will start taking conference participants to the Foundry at 6pm and will leave from both ZEC and the Cumberland House. Buses will return participants to the Cumberland House at the end of dinner. If you are driving yourself, you can pick up a map at the information desk for the Foundry, where there is free parking.</i></p>		
	6:30PM - 8:30PM	<p style="text-align: center;">Dinner</p> <p style="text-align: center;">Keynote 2: Dr. Lynne Parker</p> <p style="text-align: center;"><i>Shaping the Future of Engineering Education in the Age of AI</i></p>		The Foundry, Knoxville

FYEE 2023 Conference at a Glance (cont.)

Tuesday August 1, 2023	Event	Corresponding Author	Location
7:00AM - 11:00AM	Registration		ZEC 178
7:30AM - 8:30AM	Breakfast		ZEC 178
7:30AM– 11:15AM	Exhibit Hall Open		First Year Design Studio
8:30AM– 8:45AM	FYEE 2023 Picture		ZEC Outside 1st Floor
8:45AM - 10:00AM	S7: Special Session First Year Programs Primer <i>Jack Bringardner</i>		ZEC 378
10:00AM - 10:15AM	Networking Break Practicing Mindfulness in the Classroom <i>Katheryn Schulte-Graham and Richard Whalen</i>		First Year Design Studio
10:15AM - 11:30AM	S8: GIFTS <i>Great Ideas for Teaching, or Talking with, Students!</i>		ZEC 378
	Understanding buoyancy with building a miniature concrete canoe	Helen Yoonhee Jung	
	Developing Data Literacy through the NAE Grand Challenges and MATLAB App Designer	Dan Burleson	
	Situational Learning of MATLAB Using Data Collection and Analysis Modules Based on Upper-Level Engineering Lab Experiments	Brian Patrick O'Connell	
	A Fantastically Creative AutoCAD Assessment	Angelina Jay	
	Team selection using team leaders as hiring managers	Todd R Hamrick	
	Meeting the students where they're at: a flipped model of office hours	Kimberlyn Gray	
	Showcasing Interconnectedness of Engineering Disciplines in an Introductory Engineering Class through a Climate Change Module	Haritha Malladi	
	Integration of a Problem-Solving Heuristic Across Teaching and Assessment	Baker A. Martin	
	Broadening Students' Self-Knowledge and Self-Development in an Introductory Engineering Design Course	Ashish D Borgaonkar	
	Lifelong Learning in Perspective - An Activity for Student Understanding of an Engineer's Need to Acquire and Apply New Knowledge	Lee Kemp Rynearson	
	Leadership, Engagement And Professionalism (LEAP) Peer Mentoring Program	Marsha Christine Kowal	
	Metacognition reflection notecard: A 5-minute daily class activity to drive self-efficacy, classroom engagement, and community	Alexandra Maley Landon	
11:30AM -	Closing Session		ZEC 178
12:00PM - 1:00PM	Lunch		ZEC 178
12:30PM - 1:30PM	First Year Administrators Community of Practice Session		ZEC 378