

Conference at a Glance

*All times Eastern Daylight Time (EDT)

Mon, Aug 9	Event	Lead Author	Gather Location
9:00-11:00 AM	HELP DESK + Exhibit Hall open (GIFTS + Works-in-Progress + Sponsors)		Lobby
11:00-11:20 AM	Welcome		Networking Room
11:20-11:40 AM	Small group discussions: New innovations worth keeping		Networking Room
11:40-12:00 PM	Author/Moderator Connect + Networking		Networking Room
12:00-1:00 PM Workshops I	Helping Students Develop their Cross Cultural Communication Skills to Promote a More Diverse and Inclusive Learning Environment	Teri Kristine Reed	Workshop Room 1
	Transcending Engineering's Weed-Out Culture Through Feedback to Students	Cassie Wallwey	Workshop Room 2
	Building Informed Designers with Engineering Problem Framing Tools	Todd France	Workshop Room 3
1:00-1:15 PM	Networking Break		Networking Room
1:15-2:00 PM Technical Session 1	1-A Innovative Curriculum I <i>Moderators: Nora Honken, Kaitlin Mallouk</i>		
	Effects of a Computational-Based First-Year Engineering Course on Student Preparation	Andrew Assadollahi	Technical Session Room A
	A First-Year Engineering Service Learning Project That Impacts Global Food Security	David Gee	
	An integrated engineering/history/ethics first-year experience at Boston College	Jonathan Krones	
	Incorporating the module Engineering for Sustainable Development in the First Year Engineering Program	Jorge R Lara	
	1-B Student Success: Tracking Progress <i>Moderators: Elin Wicks, Jaskirat Sodhi</i>		
	Three Years After Rollout: A Report on Systemic Changes in a First-Year Engineering Program	Jon Sticklen	Technical Session Room B
	Assessing Achievement of Course Objectives in an Introductory Engineering Design Course	Jenahvive K. Morgan	
	Success in Engineering Study of Under-Prepared Students	Leslie Massey	
	1-C Multidisciplinary Classroom Practices <i>Moderators: Shelley Lorimer, Haritha Malladi</i>		
	An Overview of First-Year Engineering Students' Perceptions of Problem Solving in Eng. during a Major Exploration Course	Baker A. Martin	Technical Session Room C
	Allowing Freshman Engineering Students to Encounter Multiple Disciplines: Discipline Oriented Labs in the First Semester Engineering Curriculum	Benjamin McPheron	
	Including Multi-Disciplinary Project Awareness in First Year Introduction to Engineering Courses	Roger J Marino	

2:00-2:15 PM	Networking Break		Networking Room
2:15-3:15 PM Great Ideas for Teaching, and Talking with, Students (GIFTS) + Sponsors	Poster Session		Exhibit Hall
	A COVID inspired accessible first year design activity appropriate for an introductory course	Jennifer Bailey	Booth #1
	Advising Students by Motivating Ownership of Education	Andrew Assadollahi	Booth #2
	Assessment Activities in Teaching First-year Engineering Mechanics	Shelley Lorimer	Booth #3
	Bridging High School Science and First-year Engineering Through the Preservice Teachers' Science Methods Course	Kathleen A Harper	Booth #4
	Engineering the Future - Communicating Across Borders Through Elevator Pitches	Debjani Sarkar	Booth #5
	Engineering Virtual Orientation Program	Shannon Bate	Booth #6
	Getting Students to Explore Engineering Ethics through Debate-Style Presentations	Ashish D Bargaonkar	Booth #7
	Hands on Math Modeling through Building and Programing Intelligent, Adaptable Display Systems with LEDs and Arduinos	William Sierzputowski	Booth #8
	Initiating and Maintaining Collaboration in the HyFlex Environment	Cecelia M. Wigal	Booth #9
	Pilot Program: Infusing Rubin Education into First-Year Seminar	Ryan Baldwin	Booth #10
	Potential Mechanisms to Assess the Ability for Engineering Students to Communicate Effectively to a Range of Audiences	Andrew Assadollahi	Booth #11
	Preparing Teaching Assistants to Encourage an Entrepreneurial Mindset in First-Year Engineering	Meagan Eleanor Ita	Booth #12
	Project-based learning modules for an introductory engineering course scaled for different learning modalities	Haritha Malladi	Booth #13
	Teaching with Top Hat: Increasing engagement and propagating a growth mindset for learning	Alandra Kahl	Booth #14
	The Influence of Stakeholders in Ethical Decision Making	Natalie Van Tyne	Booth #15
	Using Khan Academy as an Open Educational Resource and Online Homework Tool for Introduction to Engineering	Denise M. Martinez	Booth #16
	eGrove Education	Sponsor	Booth #17
	Rubin Education	Sponsor	Booth #18
	Texas Instruments	Sponsor	Booth #19
	University of Cincinnati	Sponsor	Booth #20
3:15-3:30 PM	Networking Break		Networking Room

3:30-4:15 PM Technical Session 2	2-A Innovative Curriculum II <i>Moderators: Stephany Coffman-Wolph, Steve Efe</i>		Technical Session Room A
	Ready, Set, Go: Fostering Student Success in an Introductory Biomedical Engineering Technology Course	Joie Marhefka	
	Efficacy of teaching entrepreneurial mindset using a game-like activity	Anoop Singh Grewal	
	The Next Frontier: Integrating Spatial Reasoning into a First-Year Engineering Course	Kristine K. Craven	
	2-B Diversity and Inclusion Initiatives in a Classroom <i>Moderators: Andrew Assadollahi, Derin Ural</i>		Technical Session Room B
	Advancing Engineering Education Using a Teaching Focused Plan For Creating an Inclusive Classroom	Tracy Anne Hammond	
	An ecosystem to support sense-making, identity formation, and belonging for first-year engineering students	Kurt Paterson	
	Association between personality traits diversity in teams and their performance in a semi-virtual learning environment	Jutshi Agarwal	
	2-C Design Projects using Makerspaces <i>Moderators: Gene McGinnis, Mirna Mattjik</i>		Technical Session Room C
	Student-developed plans for use of maker spaces in a self-selected creative design project	Benjamin Daniel Chambers	
	Re-Engineering a Mini-Drone as a Project for First-Year Engineering Students	Ashish Borgaonkar	
	Which prototyping skills should we teach in first-year design? The answer is as few as possible	Matthew Wettergreen	
4:15-4:30 PM	Networking Break		Networking Room
4:30-5:00 PM	Keynote: Dr. Romules Durant – Toledo Public Schools Superintendent POSTPONED TO TUESDAY MORNING		Keynote Hall
5:00-6:00 PM	Networking		Networking Room
6:00-9:00 PM	Social Opportunity		Social Lounge

Tue, Aug 10	Event	Lead Author	Gather location
9:00-11:00 AM	HELP DESK + Exhibit Hall open (GIFTS + Works-in-Progress + Sponsors)		Lobby
10:20-11:00 AM	UPDATED: Keynote: Dr. Romules Durant - Toledo Public Schools Superintendent		Keynote Hall
11:00-11:30 AM Networking	Gamifying Engineering Education - A Playful Approach to First-Year Ethics Instruction	Scott Streiner	Keynote Hall
11:30 AM -12:30 PM Workshops II	Using Focus Groups to Gain Insights into First-Year Engineering	Cassie Wallwey	Workshop Room 1
	How to tackle student cheating, made easy by the use of technology, in a first-year engineering classroom?	Ashish D Borgaonkar	Workshop Room 2

	K-12 Interactive Classroom and Outreach for Computer Science Concepts Without a Computer	Stephany Coffman-Wolph	Workshop Room 3
12:30-12:45 PM	Networking Break		Networking Room
12:45-1:30 PM 1:00-1:45 PM Technical Session 3	3-A Innovative Curriculum III <i>Moderators: Kyle Gipson, Kemi Akintewe</i>		
	Geometric Design Project for First Year Civil Engineering Students	Hadi Kazemiroodsari	Technical Session Room A
	Invitation to Excellence: Design Challenges in Low Resource Settings for Student Recruitment	Carolyn Skurla	
	Student and Professor Collaboration to Develop a First Year Electrical Engineering Capacitance Laboratory with Common Materials	Matthew Garrett Young	
	3-B Faculty Support <i>Moderators: June Keller, Jaskirat Sodhi</i>		
	Creating a Supportive Space for Teaching-Focused Faculty to Write About their Teaching	Tracy Anne Hammond	Technical Session Room B
	Results of Discord as a Community Engagement Platform in an Introductory Engineering Design Course	Frederick Alexander Farah	
	3-C Online Teaching <i>Moderators: Lee Ryneerson, Haritha Malladi</i>		
	Enabling Hands-On, Team-based Project work during COVID-19	Brian Dick	Technical Session Room C
	Teaching First-year Engineering in an Online Learning Environment	Shelley Lorimer	
	Correlation between Asynchronous Module Comprehension and Traditional Comprehension Assessments	Sherri Youssef	
1:30-1:45 PM	Networking Break		Networking Room
1:45-2:30 PM 1:55-2:40 PM Technical Session 4	4-A Teaching Online Labs <i>Moderators: Randy Brooks, Elin Wicks</i>		
	Simulated Custom Microcontroller for a Remote First-Year Software Design Project	Aidan Matzko	Technical Session Room A
	Experience of Teaching Introduction to Electrical Engineering with an Online Platform	Junfei Li	
	Integrating the iPad Into the Engineering Classroom	Michael Cross	
	4-B Student Success: Advising & Tracking Progress <i>Moderators: Tracy Hammond</i>		
	First Year Eng. Undergrad. Academic Co-Advising Improvement	Lisa Lampe	Technical Session Room B
	A Novel Tool to Visualize Student Flow Through the Curriculum	Carolyn Skurla	
	Cultivating community for first year students: Experiences in adapting a peer mentoring program to remote format	Jill Davishahl	
	4-C Student Support: Summer Programs <i>Moderators: Melissa Montalbo-Lomboy, Derin Ural</i>		
	Preparing Engineering Students for the Fall Semester through a Summer Math Bridge Program	Aysa Galbraith	Technical Session Room C

	An Engineering Summer Bridge Program Utilizing a Safe Space to Increase Math Self-Efficacy	Charmane Caldwell	
	Facilitating Pathways to Engineering: First Year Summer Experience	Elizabeth Kurban	
2:30-2:45 PM	Networking Break		Networking Room
2:45-3:45 PM Works in Progress (WIPs) + Sponsors	Poster Session		Exhibit Hall
	A Re-Design of the OneCar: A Project Based Learning Assignment for First Year Engineering Students	Matt Caputo	Booth #21
	Advantages of Applied Engineering Programming in a Civil Engineering First-Year Course	Andrew Assadollahi	Booth #22
	Alignment of first year engineering course learning outcomes as perceived by faculty at a four-year institution and its transfer community college	Amy Richardson	Booth #23
	First-Year Engineering Students' Reflections: Plans in Response to Perceived Performance on Course Learning Objectives	Kayla Ney	Booth #24
	Greater Equity, Access, and Readiness for Engineering and Technology (GEARSET)	Lesley M Berhan	Booth #25
	Integrating First-Year Experience Programming into a First Year Engineering Mathematics Course	Andrew Skelton	Booth #26
	Partnering with Industry to Improve First Year Outcomes	Jacqueline Faith Sullivan	Booth #27
	Plagiarism detection in Programming coursework	Constantine Mukasa	Booth #28
	Remote Teaching Robotics Design Project	Olukemi Akintewe	Booth #29
	The CAD Conundrum	Gene McGinnis	Booth #30
	Understanding First-Year Engineering Student Definitions of Engineering Disciplines	Michelle Jarvie-Eggart	Booth #31
	eGrove Education	Sponsor	Booth #17
	Rubin Education	Sponsor	Booth#18
	Texas Instruments	Sponsor	Booth #19
	University of Cincinnati	Sponsor	Booth #20
3:45-4:00 PM	Networking Break		Networking Room
4:00-5:00 PM Workshops III	Teaching Students Good Teaming Skills: An Interactive Seminar	Nora Honken	Workshop Room 1
	Introducing LaTeX to the Academic Researcher: Engineering Writing with a Difference	Debjani Sarkar	Workshop Room 2

	How to Implement Open-Ended Design Projects to Foster Creativity, Entrepreneurial Mindset, and Motivation	Anoop Singh Grewal	Workshop Room 3
5:00-5:30 PM	Rapporteurs Best Full Paper & GIFTS Awards Conference Wrap Up + Survey		Keynote Hall