

PROGRAM

REGISTRATION

KEY

REGISTRATION

SESSION

BREAK/MEAL

SPEAKER

SUNDAY, JULY 27

**SUN,
7/27**

12 PM

-
6 PM

KEB

12:00

Orientation & Onboarding
(12-1:30 PM)

KEB

1:00

Welcome & Icebreaker (1:30-2 PM)

KEB

2:00

Workshop I
(2-3:30 PM)

JMP

3:00

Ice Cream Break (3:30-3:45 PM)

JMP

4:00

Workshop II
(3:45-5:15 PM)

JMP

5:00

Engineering Tours (5:15-6:30 PM)

JMP, AJC

6:00

Welcome Reception
(6:30-8:30 PM)

AJC

7:00

8:00

AT-A-GLANCE

	MONDAY, JULY 28	
7:30	Breakfast (7:30-8:30 AM)	ESJ
8:00	& Welcome (8:15-8:30 AM)	ESJ
	Keynote I (8:30-9 AM)	ESJ
9:00	Break (9-9:15 AM)	ESJ
	WIP I & WIP II (9:15-10:30 AM)	ESJ
10:00	Break (10:30-10:45 AM)	ESJ
	Workshop III (10:45 AM-12:15 PM)	ESJ
11:00		
12:00	Lunch, Group Photo & Exhibits (12:15-1:45 PM)	ESJ
1:00		
	Workshop IV (1:45-3:15 PM)	ESJ
2:00		
3:00	Break (3:15-3:30 PM)	ESJ
	Full Papers I (3:30-4:30 PM)	ESJ
4:00		
	Panel I & Panel II (4:30-5:30 PM)	ESJ
5:00		
	Depart ESJ (5:30-6 PM)	ESJ
6:00		
7:00	Keynote II, Reception, & Dinner (6-9 PM)	The Hall
8:00		
9:00		

TUESDAY, JULY 29	
Breakfast (7:30-8:30 AM)	ESJ
GIFTS (8:30-10:30 AM)	ESJ
Break (10:30-10:45 AM)	ESJ
Full Papers II (10:45-11:45 AM)	ESJ
Rapporteurs, Awards, & Closing (12-12:30 PM)	ESJ
Boxed Lunches (12:30-1:30 PM)	ESJ
First-Year Admins Lunch & Optional Tours (1-2:30 PM)	The Loft, ESJ

KEY

REGISTRATION	SESSION
BREAK/MEAL	SPEAKER

12:00 - 1:30 PM	Orientation & Onboarding	KEB
1:30 - 2:00 PM	Welcome & Icebreaker	KEB
2:00 - 3:30 PM	WORKSHOP I From Vision to Reality: Plan and Persuade for Meaningful Academic Change <i>Kaitlin Mallouk, J. Blake Hylton, Jack Bringardner, Krista M. Kecskemety, Cassie Wallwey, Andrew Charles Bartolini</i> Designing Active Learning Activities with Ethics in Mind, and Body <i>Nicole Farkas Mogul, David Tomblin, Timothy Duane Reedy</i> MATLAB Master Toolkit for Engineering and Educators <i>Laura Keen (Mathworks), Ken Cleveland (Mathworks)</i>	JMP
3:30 - 3:45 PM	Ice Cream Break	JMP
3:45 - 5:15 PM	WORKSHOP II Integrating Service Learning into First-Year Engineering Courses: A Hands-On Workshop <i>Kathryn Schulte Grahame, Brian Patrick O'Connell, Anne E Shea</i> How Autodesk Helps Educators Create a Path from Education to Industry <i>Gregg Stoklosa (Autodesk)</i> Wired for Connection, Not Perfection: Embracing Imperfection in the Engineering Space <i>Audrey Gilfillan, Alison West</i>	JMP
5:15 - 5:30 PM	Break & Engineering Tours	JMP/AJC
5:30 - 6:30 PM	Engineering Tours	JMP/AJC
6:30 - 8:30 PM	Welcome Reception	AJC

PROGRAM

SUNDAY, JULY 27TH 2025

7:30 - 8:30 AM	Breakfast	ESJ
8:15 - 8:30 AM	Welcome	ESJ
8:30 - 9:00 AM	KEYNOTE I Darryll Pines, <i>President, University of Maryland, College Park</i>	ESJ
9:00 - 9:15 AM	Break	ESJ
9:15 - 10:30 AM	<p><u>WIP I:</u></p> <p>Research Opportunities For Educators Who Don't Do Research <i>Todd R. Hamrick</i></p> <p>Both Sides Now: Examining the Faculty Side of a Student Code Critiquer from a Human Factors Perspective <i>Laura Albrant</i></p> <p>A Course Level Student Survey to Determine Student Learning <i>Mark A. Palmer</i></p> <p>First-year Student Support System: A Multi-agentic AI Approach <i>Rui Li</i></p> <p>Enhancing Teaching and Learning in a First-Year Course Through the Dual Lens of Student Reflection and Feedback <i>Roshina Babu</i></p> <p>Enhancing Student Collaboration Through Growth-Based Assessment Practices <i>Evelyn Walters</i></p> <p><u>WIP II:</u></p> <p>Engineering Culture: Ideologies, Mindsets, and Infrastructure <i>Timothy Duane Reedy</i></p> <p>Bridging Academics and Community: The Impact of Living-Learning Programs on Inclusion, Community, Leadership, and Academic Success <i>Lesly Samantha Murillo</i></p> <p>Fostering Engineering Communities through Collaborative, Student-Led Learning in a First-Year Intro to Engineering Course <i>Ronnie L. Brown</i></p> <p>Exploring An Effective Mentorship Structure for Student Success in Higher Education <i>Olukemi Akintewe</i></p> <p>Building Supportive Campus Communities Through the MakerSpace Initiative <i>David Kriesberg</i></p>	ESJ

PROGRAM

MONDAY, JULY 28TH 2025

10:30 - 10:45 AM	Break	ESJ
10:45 - 12:15 PM	WORKSHOP III Power of Situational Judgment Tests (SJTs): Developing Stronger and More Effective Engineering Graduates <i>Andrea Wright, Katie Atkins (Acuity Insights)</i> CAD for Collaborative, Inclusive, Project-Based Learning with Onshape <i>Matt Shields, McKenzie Brunelle (Onshape)</i> First-Year Engineering Forums: Planning & Organizing Idea-Sharing Sessions with Program Stakeholders to Increase Collaboration and Mutually Beneficial Relationships <i>Cassie Wallwey, Juan David Ortega Álvarez, Benjamin Daniel Chambers, David Gray, Daniel Newcomb</i> Activity Centric Learning and Teaching with MATLAB - Module 1 <i>Lynn A. Albers</i>	ESJ
12:15 - 1:45 PM	Lunch, Group Photo & Focus on Exhibits	ESJ
1:45 - 3:15 PM	WORKSHOP IV Enhancing Transportation Design Instruction with Bentley OpenRoads <i>Zack Fredin, Julie Van Portfliet (Bentley Systems)</i> Play as Prep Workshop: Time & Resource-Efficient Strategies for Developing Effective Undergraduate TAs of First Year Students <i>Christine Alexander</i> Transitioning to Autodesk Fusion (previously Fusion 360) <i>Dan Banach (Autodesk)</i>	ESJ
3:15 - 3:30 PM	Break	ESJ
3:30 - 4:30 PM	FULL PAPERS I Room I: Cultivating Inclusive Excellence: Peer Mentoring Programs for Minoritized Students in Engineering (Research) <i>DeAnna Katey</i> Exploratory Look at First-Year Engineering Students Sense of Belonging and Belonging Uncertainty <i>Anne Marguerite McAlister</i> The Inclusion of a One-Credit Course on Academic Honesty and Dishonesty in the First Year of the Engineering Curriculum <i>Aiman S. Kuzmar</i>	ESJ

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MONDAY, JULY 28TH 2025

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MONDAY, JULY 28TH 2025

3:30 - 4:30 PM	<p>FULL PAPERS I <i>(cont.)</i></p> <p>Room I <i>(cont.):</i></p> <p>Exploring the Relationship between Moral Intuitions and Ethics Education among First-Year Engineering Students in the US, Netherlands, and China <i>Scott Streiner</i></p> <hr/> <p>Room II:</p> <p>Teaching and Assessing Microsoft Excel in a Simulated Environment <i>Atheer Almasri</i></p> <p>A Student Perspective on Introducing Arduino in First-Year Engineering Technology Education: A Review <i>Madelyn Kate Thompson</i></p> <p>Improving Educational Equity and Outcomes in a First-Year Engineering Programming Course through a Content-and-Language Integrated Approach <i>Salome Motavas</i></p> <hr/> <p>Room III:</p> <p>Paying it Forward: How Current Students Advised Future Students in an Engineering Design Course <i>Natalie C.T. Van Tyne</i></p> <p>Utilizing an Advisory Team Model in Academic Programs <i>Matthew Burns</i></p> <p>Characterizing Conflicts in Student Design Teams in an Introductory Engineering Course <i>Haritha Malladi</i></p> <p>Leveraging real-time testing data to assess and predict student success in a team-based first-year engineering design project <i>Matthew Patrick Paul</i></p>	ESJ
4:30 - 5:30 PM	<p>PANEL I</p> <p>PANEL II</p>	ESJ
5:30 - 6:00 PM	Depart ESJ	
6:00 - 9:00 PM	<p>KEYNOTE II</p> <p>Amir Ansari, <i>Co-founder & Executive Director, xFoundry@UMD</i></p> <p>Reception & Dinner</p>	The Hall

7:30 - 8:30 AM	Breakfast	
8:30 - 10:30 AM	<p>GIFTS</p> <p>Room I:</p> <p>Boosting Students Who Demonstrate Non-Thriving Characteristics Early In Semester <i>Andrew Charles Bartolini</i></p> <p>Experiential, Research-Based Learning as part of the First-Year Innovative Research Experience's Bio Inspired Robotics Stream. <i>Lena Johnson</i></p> <p>Building Empathy and Conflict Resolution Skills: A Role-Playing Activity for First-Year Engineering Faculty and Teams <i>Catherine Marie Hamel</i></p> <p>S.W.O.T. Analysis: Who AM I? <i>Lynn A. Albers</i></p> <p>Formative Lecture Quizzes to Help Students Improve Their Understanding <i>Kathleen A. Harper</i></p> <p>A School Store to Promote Sustainability and Product Iteration in a First-Year Engineering Design Course <i>Amy J. Karlsson</i></p> <p>Time Management as a Tool in a Stress Toolkit for First-Year Engineering Students <i>Laura Ann Gelles</i></p> <p>A CHEESE-Y Approach to Safety <i>Dagan Trnka</i></p> <p>A Chemical Engineering Module About Coffee <i>Kurt Rhoads</i></p> <p>Role-playing in Service of Developing Psychological Safety in Teams <i>Mirna Mattjik</i></p> <p>Building Community and Campus Awareness: Interactive Scavenger Hunts for First-Year Engineers <i>Rebecca Kiriazes</i></p> <p>Quick Assessment of Course Topics' Impact in First-Year Engineering Seminars <i>Lee Kemp Ryneerson</i></p>	ESJ

PROGRAM
TUESDAY, JULY 29TH 2025

8:30 - 10:30 AM

GIFTS (cont.):

Balance Builders: Stirring Together Community, Conversations, and Culinary Metaphors for Wellness in First-Year Engineering Students

Madison Seckman

Room II:

Incorporating Integrated Learning and Cognitive Science into an Introduction to Engineering Course

Tricia Crossett

Data Driven Design: A Two Course Sequence for First Year Engineers

Katie Barillas

Automated Quiz Generation Using Generative AI and QTI for Teaching Content Management Systems

Osman Sayginer

Bridging Engineering Education with a Cost-Effective Classroom Kit: A Hands-On Approach to Active Learning

Osman Sayginer

Using Robotic Arm Project to Introduce Students to Engineering Design Through Experiential Learning

Ashish D. Borgaonkar

Math Quest: Arithmetic Education for Underfunded Schools

Ryan McAfee Grudell

Designing for Daily Life: Open-Ended 3D Modeling in First Year Engineering

Katie Barillas

Building a comprehensive First-Year Computing Trajectory

Joseph A Lyon

Using Hardware in an Engineering Mechanics Course

Aris Cleanthous

Reverse CADding as an Engaging Tool for First-Year Engineering Students

Kapil Gangwar

Bridging Code and Circuit: MATLAB-Guided Arduino Walkthroughs for First-Year Engineering Students

Kathryn Schulte Grahame

Guiding Students to Technical Report Writing Success with Scaffolded Technical Writing Assignments

Nicole Dufalla

ESJ

PROGRAM
TUESDAY, JULY 29TH 2025

10:30 - 10:45 AM	Break	
10:45 - 11:45 AM	FULL PAPERS II Room I: A Hands-on STEM Enrichment Activity to Promote Engineering to High School Students <i>Qudsia Tahmina</i> A Framework for Engineering Problem Scoping Leading to Mindful Engineering Problem Solving <i>Cassie Wallwey</i> Bringing Innovation and Open-Ended Problem Solving to the Classroom <i>Aysa Galbraith</i> Network-based Reflection to Support First-year Engineering Students <i>Rachel Smith</i>	ESJ
	Room II: The Impact of the [Project] Program on Recruiting Cybersecurity Students and Fostering their Academic Success and Career Prospects <i>Katerina Goseva-Popstojanova</i> Exploring the Engineering Major Decision Journey through First-Year Seminars <i>Rumeysa Tekin Baturalp</i> Aligning First-Year Engineering Goals with Major Selection <i>David Gray</i> What are we Teaching First Year Students? A Qualitative Analysis of Introductory Engineering Course Syllabi <i>Anne Marguerite McAlister</i>	
11:45 - 12:00 PM	Break	ESJ
12:00 - 12:30 PM	Rapporteurs, Awards, & Closing	ESJ
12:30 - 1:30 PM	Boxed Lunches	ESJ
1:00 - 2:30 PM	First-Year Admins Lunch Optional Tour - UMD Traditions Optional Tour - NBF, Nuclear Reactor, Wind Tunnel	The Loft Various locations

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TUESDAY, JULY 29TH 2025