

EDI 2025 Planning Committee

Committee Member	
Name	Organization
Co-Chairs	
Dr. Jenna Carpenter	Campbell University
Dr. Donna Riley	University of New Mexico
Committee Members	
Dr. Randy Collins	Western Carolina University
Dr. David Ferro	Weber State University
Dr. David Hahn	The University of Arizona
Dr. Vahid Motevalli	Pennsylvania State University, Harrisburg
Dr. Okenwa Okoli	The University of Memphis
Dr. Daniel Pack	Baylor University
Dr. Kyle Squires	Arizona State University
Dr. Gregory Triplett	Saint Louis University
Dr. Andrea Welker	The College of New Jersey
Dr. Sharon Zelmanowitz	United States Coast Guard Academy

PROGRAM SCHEDULE OF EVENTS

SUNDAY, APRIL 6th	
Session Time & Location	Session Title & Description
10:00 AM – 5:00 PM Tucson Foyer	Registration
10:15 AM – 12:30 PM Tucson Salons G/H	EDC Executive Board Meeting
12:30 PM – 1:15 PM Tucson Salons G/H	EDC Diversity Committee Meeting
1:30 PM – 2:15 PM Tucson Salons G/H	EDC Public Policy Committee Meeting
1:30 PM – 3:15 PM Tucson Salons E/F	<p>Primarily Undergraduate Institutions Meeting</p> <p>Session Organizers:</p> <ul style="list-style-type: none"> • John-David “JD” Yoder, Dean, Ohio Northern University • Sara Atwood, Dean, Elizabethtown College • Lauren Anderson, Dean, Lafayette College
2:15 PM - 3:15 PM Tucson Ballroom I	<p>MSI Interest Group Meeting</p> <p>Session Organizers:</p> <ul style="list-style-type: none"> • Donna Riley, Dean, University of New Mexico • Stephanie Luster-Teasley, Dean of Engineering, North Carolina A&T State University
2:30 PM – 3:15 PM Tucson Salons G/H	EDC Data Committee Meeting
3:30 PM – 5:30 PM Tucson Salons E/F	<p>Deans Forum: New, Recent, and Curious Deans</p> <p>We are excited to welcome new, recent, and curious deans to this year’s session, which is designed to be interactive and participatory! With an electronic poll, participants will choose 3 or 4 questions of greatest interest to the whole group at the start of the session. poll. Questions will represent topics ranging from timeless new dean challenges to emergent issues that most deans are grappling with. Participants will spend approximately one hour discussing the chosen questions at tables, with longer serving Deans distributed among tables to help facilitate the discussion and provide advice from their experiences. The last 20 minutes of the session will bring the whole group back</p>

	<p>together. Representatives from each table will share insights and pose follow on questions that might spark ongoing discussion at the EDI. The session is designed to last approximately 90 minutes, however, some of the session organizers will stay longer for additional questions or discussion.</p> <p>Session Organizers:</p> <ul style="list-style-type: none"> • Sharon Zelmanowitz, Dean, United States Coast Guard Academy • Andrea Welker, Dean, The College of New Jersey • Kyle Squires, Dean, Arizona State University • Randy Collins, Dean, Western Carolina University
<p>6:00 PM – 8:00 PM Arizona Sands Club 565 N Cherry Ave, 5th Floor, Tucson, AZ 85719</p>	<p>Welcome Reception hosted by The University of Arizona and Arizona State University</p> <p>Shuttle pick up from Starr Pass Circle</p> <p>Shuttle times: 5:30p departure from resort 8p departure from The University of Arizona</p>
MONDAY, APRIL 7th	
<p>8:00 AM – 5:00 PM Tucson Foyer</p>	Registration
<p>8:00 AM – 5:00 PM Tucson Foyer</p>	Exhibits
<p>8:00 AM – 9:00 AM Tucson Salons E/F</p>	<p>Breakfast EDC ADRP Program Update</p> <p>Speaker:</p> <ul style="list-style-type: none"> • Javier Kypuros, ASEE EDC ADRP Chair, Dean, The University of Texas at Tyler
<p>9:00 AM – 9:15 AM Tucson Salons E/F</p>	<p>Welcome Remarks</p> <p>Sharon Walker, EDC Chair, Dean, Drexel University Jenna Carpenter, EDI Co-Chair, Dean, Campbell University</p>
<p>9:15 AM – 10:15 AM Tucson Salons E/F</p>	<p>Session 1: Keynote Speaker</p> <p>Introduction:</p> <ul style="list-style-type: none"> • Donna Riley, EDI Co-Chair, Dean, University of New Mexico

	<p>Speaker:</p> <ul style="list-style-type: none"> • Dr. Theresa Maldonado, Systemwide Vice President for Research & Innovation, University of California Office of the President
<p>10:15 AM – 10:45 AM Tucson Foyer</p>	<p>Refreshment & Networking Break</p>
<p>10:45 AM – 12:00 PM Tucson Salons E/F</p>	<p>Session 2: Creating Research Coalitions</p> <p>The opportunity to compete for multi-institution regional and national research awards has grown significantly in recent years, including award values ranging from hundreds of millions to a billion dollars with recent programs. Creating successful coalitions can be challenging. This session will explore successful strategies and lessons learned through panel discussions with program managers and successful team leads, and audience Q&A.</p> <p>Moderator:</p> <ul style="list-style-type: none"> • David Hahn, Dean, The University of Arizona
<p>12:00 PM – 1:15 PM Tucson Salons E/F</p>	<p>Monday Lunch Reshaping Public Perception of Engineering</p> <p>Speaker:</p> <ul style="list-style-type: none"> • Bonnie Zimmerman, Co-Founder, Head of Strategy, Merit
<p>1:15 PM – 2:15 PM Tucson Salons E/F</p>	<p>Session 3: Engineering Education in the Era of GenAI: Examples & Use Cases</p> <p>Generative AI (GenAI) is rapidly reshaping education, bringing both opportunities and challenges to engineering disciplines. While many educators are familiar with AI's performance on standardized tests, the tools and technology are rapidly advancing and are now able to solve complex engineering problems, from kinematics to system dynamics to many other areas—tasks traditionally thought to require deep understanding and human expertise beyond the capabilities of current GenAI systems. Through live demonstrations of AI tackling engineering-specific homework and exam problems, attendees will gain insight into the accelerating capabilities of these tools. Faculty innovators will share experiences for integrating GenAI into curricula, adapting assessments, evaluating</p>

	<p>AI-generated solutions critically, and preparing students for AI-driven workplaces, where students will add value through responsible curation of AI in sociotechnical contexts. Join us to explore how engineering education can lead in embracing GenAI's transformative potential.</p> <p>Moderator:</p> <ul style="list-style-type: none"> • Dr. Dietmar Rempfer, Former Dean, Embry-Riddle Aeronautical University, Prescott <p>Speakers:</p> <ul style="list-style-type: none"> • Dr. Melanie Moses, Professor of Computer Science, University of New Mexico • Dr. Nadia Kellam, Associate Professor of Engineering and Associate Director for Research Excellence, Arizona State University • Dr. Michael Thompson, Professor of Electrical and Computer Engineering, Baylor University
<p>2:15 PM – 2:45 PM Tucson Foyer</p>	<p>Refreshment & Networking Break</p>
<p>2:45 PM – 3:45 PM Tucson Salons E/F</p>	<p>Session 4: Evolving Engineering Curricula for an AI-Driven Future</p> <p>As AI redefines the engineering workplace, leaders in engineering education must ensure that curricula evolve to meet the demands of a rapidly transforming industry. This session will introduce key AI tools poised to become essential in engineering practice – such as large language models (LLMs) for enhanced data analysis and decision-making, generative design platforms for innovative product development, and AI-assisted simulation tools that enhance complex system modeling and testing. Panelists will share insights on strategies to integrate these tools into engineering curricula, preparing graduates to leverage AI effectively and ethically. Discussions will include challenges in reshaping learning frameworks, fostering interdisciplinary skills, and establishing partnerships to support AI-enabled educational resources. Attendees will come away with actionable ideas to embed AI competencies within programs, ensuring that students are well-prepared to excel in an AI-centric future.</p>

	<p>Moderator:</p> <ul style="list-style-type: none"> • Daniel Pack, Dean, Baylor University <p>Panelists:</p> <ul style="list-style-type: none"> • PJ Boardman, Global Director, STEM Outreach and Workforce Development, MathWorks • Michael K. J. Milligan, CEO, ABET • Todd Tuthill, Vice President for Aerospace, Defense, and Marine Industry, Siemens Digital Industries Software • Peter Martin, Director of R&D, Quanser
<p>3:45 PM – 5:00 PM Tucson Salons E/F</p>	<p>Session 5: Current Issues: The Impact of Executive Orders: Power, Policy, and Precedent</p> <p>Moderator:</p> <ul style="list-style-type: none"> • Gregory Triplett, Dean, Saint Louis University <p>Panelists:</p> <ul style="list-style-type: none"> • Jennifer Poulakidas, Associate Vice Chancellor, Government and Community Relations, University of California, Los Angeles • Matthew Simon, Associate Vice President, State and Federal Regulations, Office of Government & Community Engagement, Arizona State University
<p>6:00 PM – 7:00 PM Starr Circle</p>	<p>Reception Sponsored by Oregon State University, Dassault Systemes, Southern Methodist University</p> <p>Speaker:</p> <ul style="list-style-type: none"> • Dr. Scott Ashford, Dean, College of Engineering, Oregon State University
<p>7:00 PM – 9:00 PM Tucson Salon E/F</p>	<p>Banquet & Invited Keynote Sponsored by University of Louisville, Speed School of Engineering</p> <p>Speaker:</p> <ul style="list-style-type: none"> • Dr. J.P. Mohsen, Associate Dean, Administration and Faculty Affairs, University of Louisville

TUESDAY, APRIL 8th	
8:00 AM – 5:00 PM Tucson Foyer	Registration
8:00 AM – 5:00 PM Tucson Foyer	Exhibits
8:00 AM – 9:00 AM Tucson Salons E/F	<p>Breakfast Deans Survey</p> <p>Speaker:</p> <ul style="list-style-type: none"> • Dr. Stephanie Adams, Dean, Erik Jonsson School of Engineering and Computer Science, The University of Texas at Dallas
9:00 AM – 9:15 AM Tucson Salons E/F	<p>Welcome Remarks</p> <p>Grant Crawford, ASEE President, Quinnipiac University Donna Riley, EDI Co-Chair, Dean, University of New Mexico</p>
9:15 AM – 10:15 AM Tucson Salons E/F	<p>Session 6: Revolutionizing the Future Engineering Workforce</p> <p>Engineering workforce needs are growing at the same time that we’re facing a demographic decline of college students in the US and the retirement of the last of the Baby Boomers. Even with rapid uptake of AI, engineering skill sets like creative problem solving are expected to remain in high demand. To help deans meet these needs, this panel will highlight key challenges along with recommendations and best practices from both a recent report from the National Infrastructure Advisory Council Subcommittee on Expanding the Workforce and a guidance document from the American Society of Civil Engineers and National Governors Association.</p> <p>Moderator:</p> <ul style="list-style-type: none"> • Gregory Triplett, Dean, Saint Louis University <p>Panelists:</p>

	<ul style="list-style-type: none"> • Maria Lehman, NIAC Vice-Chair, Past ASCE President, ASCE Task Committee on Transforming the Workforce • Dr. Norma Jean Mattei, NIAC Member, Past ASCE President • Dr. Jenna Carpenter, NIAC Subcommittee Member, ASCE Task Committee on Transforming the Workforce
<p>10:15AM – 10:30 AM Tucson Salons E/F</p>	<p>Cool Ideas Session I</p> <p>Session Organizer:</p> <ul style="list-style-type: none"> • David Ferro, Dean, Weber State University <p>Topics:</p> <ul style="list-style-type: none"> • Challenge Factor for Retention • Engineers Need to Read Jane Austen! • Engineering for US All
<p>10:30 AM – 11:00 AM Tucson Foyer</p>	<p>Refreshment & Networking Break</p>
<p>11:00 AM – 12:00 PM Tucson Salons E/F</p>	<p>Session 7: The Power of Data for Engineering Programs</p> <p>In this talk we consider metrics for quantifying the complexity of academic program curricula. Complexity in this case relates to the extent to which the structure of a curriculum impacts a student’s ability to progress through that curriculum towards graduation. The ability to quantify curricular complexity in this manner allows us to order programs according to their complexity, and to compare and contrast similar programs at different institutions according to these complexity measures. Using curricular data collected from a large number of universities, we will show that most curricula are distributed at the lower end of the complexity scale with relatively few at the higher end of this scale; however, many of the higher complexity curricula correspond to engineering programs. Next, we consider how curricular complexity metrics vary according to academic discipline, both broadly across the wide variety of fields in higher education, and more narrowly within specific engineering disciplines. Finally, we will describe some surprising evidence supporting the proposition that higher quality engineering programs tend to have lower complexity curricula.</p> <p>Session Organizer:</p> <ul style="list-style-type: none"> • Gregory Triplett, Dean, Saint Louis University

	<p>Speaker:</p> <ul style="list-style-type: none"> • Dr. Gregory Heileman, Vice Provost for Undergraduate Education and Professor of Electrical and Computer Engineering, The University of Arizona
<p>12:00 PM – 1:45 PM Tucson Salons E/F</p>	<p>Tuesday Lunch and EDC Business Meeting Sponsored by Florida International University</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Dr. Ines Triay, Interim Dean, Florida International University • Sharon Walker, EDC Chair, Dean, Drexel University
<p>1:45 PM – 3:00 PM Tucson Salons E/F</p>	<p>Session 8: ASEE Inclusive Mindset Project</p> <p>The ASEE Mindset Project is the result of a multi-year effort to develop key recommendations for changing the landscape of engineering and engineering technology education to better meet the needs of our ever-changing world. The ASEE Mindset Report evaluates the current state of engineering education and curricula in terms of diversity, inclusivity, pathways, and mindset and identifies the most challenging issues and limitations of our current system. The follow-on ASEE Blueprint Report is a roadmap on how to implement the findings and recommendations from the Mindset Report. Our panel of project participants will share key insights from these reports that inform engineering education for the 21st century.</p> <p>Moderator:</p> <ul style="list-style-type: none"> • Jenna Carpenter, Dean, Campbell University <p>Panelists:</p> <ul style="list-style-type: none"> • Dr. Donna Riley, Jim and Ellen King Dean of Engineering and Computing, University of New Mexico • Dr. Michelle Sabick, Dean, Ritchie School of Engineering and Computer Science, University of Denver • Dr. Stephanie Adams, Dean, Erik Jonsson School of Engineering and Computer Science, The University of Texas at Dallas • Dr. Sara Atwood, Dean, School of Engineering and Computer Science, Elizabethtown College

	<ul style="list-style-type: none"> • Dr. Gary Bertoline, Distinguished Professor and Senior VP, Purdue University at West Lafayette
<p>3:00 PM – 3:15 PM Tucson Salons E/F</p>	<p>Cool Ideas Session II</p> <p>Session Organizer:</p> <ul style="list-style-type: none"> • David Ferro, Dean, Weber State University <p>Topics:</p> <ul style="list-style-type: none"> • Improving Engagement with Advisory Boards • Program Synthesis through Student Competition Teams • AI-Tutor
<p>3:15 PM – 3:45 PM Tucson Foyer</p>	<p>Refreshment Break & Networking Break</p>
<p>3:45 PM – 5:00 PM Tucson Salons E/F</p>	<p>Session 9: The Status of DEI in Higher Education</p> <p>This panel will look at strategies which can be used to support the success of students and faculty amid the rapidly changing national landscape on diversity, equity, and inclusion programs and initiatives.</p> <p>Session Organizer:</p> <ul style="list-style-type: none"> • Jenna Carpenter, Dean, Campbell University <p>Panelists:</p> <ul style="list-style-type: none"> • Dr. Yvette Pearson, Founder and Principal Consultant, The PEER Group • Dr. Renetta G. Tull, Vice Chancellor for Diversity, Equity, and Inclusion (DEI), University of California, Davis • Dr. Brooke Coley, Critical Scholar, Founding Executive Director of the Center for RARE JUSTICE, Assistant Professor of Engineering, Arizona State University • Dr. Beth Mitchneck, Professor Emerita, School of Geography, Development & Environment, The University of Arizona • Dr. Javier Kypuros, Dean, College of Engineering, The University of Texas at Tyler

5:00 PM – 7:00 PM Starr Circle	Closing Reception Sponsored by University of Rhode Island, College of Engineering Speaker: <ul style="list-style-type: none">• Dr. Anthony Marchese, Dean, College of Engineering, University of Rhode Island