Dartmouth Engineering’s human-centered approach to education and research empowers students to learn, discover, and innovate—without boundaries—to solve for human need and address the most critical issues of our time.

1st in gender parity
Among the first leading national research universities to award more undergraduate engineering degrees to women.

54% faculty entrepreneurs
More than half of Dartmouth’s engineering faculty have founded start-up companies.

1st for PhD Innovation
First doctoral-level program with specific focus on research translation, technology transfer, and entrepreneurship.

4th in alumni start-ups
Among the highest for number of venture capital-backed alumni start-up companies per capita.

engineering.dartmouth.edu
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You can be yourself at HP.

Your ideas matter at HP. Our success is fueled by the diversity of our people and their unique perspectives.

Let’s grow together.
Dear Colleagues:

Welcome to the 2024 Engineering Deans Institute (EDI) in the beautiful Rancho Bernardo region of San Diego, California! On behalf of the American Society of Engineering Education (ASEE) and all members of the organizing committee, we are excited you have chosen to join us for what we trust will be an informative and productive meeting. EDI always provides us, as a community of academic leaders, opportunities to increase our effectiveness as we collectively elevate the significant impact our colleges and universities can have on our regions, states, nation, and the world. The EDI 2024 sessions will emphasize many issues and trends influencing and impacting the future of our programs and our ability to be effective leaders, including:

- The role of AI in the classroom and engineering curricula
- Trends and opportunities for AI in research, innovation, and collaboration
- Strengthening partnerships with our offices of institutional research and analysis
- Pathways to student success
- Making the most out of our advisory councils
- Building transformational partnerships in research and education
- Engaging with policy and political leaders
- Opportunities with the ASEE Corporate Member Council
- A discussion around the ASEE Diversity Recognition Program

On Sunday, we will once again hold a forum focused on new, recent, or rising deans, an event that even many experienced deans have attended and appreciated, as well as a meeting for deans whose institutions are primarily focused on undergraduate education. We are very pleased to be joined by UC San Diego Chancellor Pradeep K. Khosla, who will address us as our Monday banquet distinguished keynoter. Chancellor Khosla previously served as Dean of the College of Engineering and Philip and Marsha Dowd University Professor at Carnegie Mellon University, so is intimately familiar with the challenges and opportunities facing engineering deans.

As an organizing committee, we have ensured there is sufficient time to enjoy the community and connect with colleagues. This includes an Engineering Deans Council Business Meeting during lunch on Tuesday.

We want to thank everyone for attending this year’s EDI. Very special thanks go to all members of the organizing committee, who worked hard over the better part of a year to plan this year’s EDI. To our sponsors, we thank you for your generous support.

Finally, we want to thank ASEE for its support of the meeting, especially Patti Greenawalt, Heather Deale, Ashley Krawiec, Monique Ayala, and Tonya Tucker who worked closely with us on all aspects of the EDI planning process.

We hope you enjoy your time in Rancho Bernardo!

Alexander Wolf  
Dean, University of California, Santa Cruz

Kemper Lewis  
Dean, University at Buffalo – SUNY
EDI PLANNING COMMITTEE

Kemper Lewis, Co-Chair
Dean, University at Buffalo – SUNY

Elizabeth Orwin
Dean, University of the Pacific

Nancy Warter-Perez
Dean, California State University, Los Angeles

Alexander Wolf, Co-Chair
Dean, University of California, Santa Cruz

Al Pisano
Dean, University of California, San Diego

Andrea Welker
Dean, The College of New Jersey

Nancy Albritton
Dean, University of Washington

Amit Shukla
Dean, Seattle University

Sharon Zelmanowitz
Dean, US Coast Guard Academy

Aaron Bobick
Dean, Washington University in St. Louis

Durga Suresh-Menon
Dean, Wentworth Institute of Technology

Nader Jalili
Dean, Southern Methodist University

Gregory Triplett
Dean, Saint Louis University
THANK YOU
TO OUR SPONSORS FOR THEIR GENEROUS SUPPORT OF EDI!

VISIONARY

Northeastern University
College of Engineering

hp

University at Buffalo
School of Engineering
and Applied Sciences

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COLLEGE OF
ENGINEERING

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LOUISVILLE

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BECOME AN EDI SPONSOR TODAY!
Custom packages are available upon request. Contact Ashley Krawiec Director of Event Sales a.krawiec@asee.org
Join forces to increase diversity in engineering at scale

By sharing expertise, capabilities, successes, and resources, K-12 schools, universities, the public/governmental sector, the private/industry sector, and non-profits can achieve transformative impact nationwide.

Engineering PLUS Alliance

In partnership with the ASEE, creates networked communities to build an inclusive infrastructure that will drive the transformative, systemic, and sustainable change needed to significantly increase the number of Black, Indigenous, other people of color, and women earning undergraduate and graduate degrees in engineering.

Neurodiverse Academic and Career Development

Vanderbilt University, University of Connecticut, Fisk University, and Northeastern University, together with the College Autism Network, are working to provide holistic support for neurodiverse engineering students so they are successful in college, on co-op, and in the workforce after graduation.

Sign Up Today

Become a stEm PEER change agent at your institution.

Learn more about our efforts.
# EDI Schedule

## Sunday, April 14th

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tr>
<td>10:30 AM – 6:00 PM</td>
<td>Registration</td>
<td>Aragon Foyer</td>
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<td>11:30 AM - 1:15 PM</td>
<td>EDC Executive Board Meeting</td>
<td>Aragon 1A</td>
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<tr>
<td>12:30 PM - 1:15 PM</td>
<td>EDC Diversity Committee</td>
<td>Aragon 1C</td>
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<tr>
<td>1:30 PM - 2:15 PM</td>
<td>Public Policy Committee Meeting</td>
<td>Aragon 1A</td>
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<tr>
<td>2:30 PM - 3:15 PM</td>
<td>Data Committee Meeting</td>
<td>Aragon 1A</td>
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<tr>
<td>1:30 PM - 3:15 PM</td>
<td>Primarily Undergraduate Institutions (PUI) Meeting</td>
<td>Aragon 1C</td>
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<tr>
<td>3:30 PM - 5:30 PM</td>
<td>Deans Forum: New, Recent, &amp; Curious Deans</td>
<td>Aragon II &amp; III</td>
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<tr>
<td>5:15 PM - 8:00 PM</td>
<td>Welcome Reception at UC San Diego</td>
<td>UC San Diego</td>
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This Sunday forum provides an opportunity for relatively new and incoming Deans to engage with more experienced Deans and fellow new Deans. We will share stories and advice in topic areas including: (1) Cultivating a Healthy Culture & Leading Through Organizational Change; (2) Navigating 360° Relationships; (3) Fundraising; and (4) Maintaining your own Healthy Work/Life Balance. The session will be designed for robust engagement and opportunities for Q&A. An optional follow-on mentoring and networking breakfast on Monday will allow additional opportunities to engage.

**Speakers:**
- Stephanie Adams, Dean, The University of Texas - Dallas
- Jalili Nader, Dean, Southern Methodist University
- Cole Smith, Dean, Syracuse University
- Sharon Zelmanowitz, US Coast Guard Academy

Buses to pick up from the hotel lobby at 5:15 PM
### EDI Schedule

**Monday, April 15th**

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<tr>
<th>Time</th>
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<td>Aragon Terrace West</td>
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<td>8:00 AM - 9:00 AM</td>
<td>Aragon II &amp; III</td>
<td>Breakfast</td>
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<td><strong>Sponsored by Northeastern University, College of Engineering: Creating Systemic Change Together</strong></td>
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<td>Increasing diversity in engineering requires a collective approach—one that involves collaboration, expertise sharing, and partnerships among K-12, universities, public/governmental sector, private/industry sector, and non-profits nationwide. While there is a shared goal to increase underrepresented populations in engineering and there are currently many ongoing diversity efforts, the efforts are often conducted at the individual organization and institution level or at limited scale. By coming together as a community, individual successes, capabilities, areas of expertise, and resources can be shared to develop holistic solutions and make a greater impact nationwide. This approach can further benefit society by enabling diversity efforts to expand from its focus on select underrepresented populations (e.g., women, BIPOC, LGBTQ+, physically disabled, neurodiverse) to the needs of all diverse groups within our society.</td>
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<td><strong>Speakers:</strong> Gregory D. Abowd, Dean of the College of Engineering, Northeastern University Richard Harris, Associate Dean for Diversity, Equity, and Inclusion, College of Engineering, and Director, Program in Multicultural Engineering, Northeastern University</td>
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<tr>
<td>9:00 AM - 9:15 AM</td>
<td>Aragon II &amp; III</td>
<td>Welcome Remarks</td>
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<td></td>
<td><strong>EDI Co-Chairs</strong> Alex Wolf, Dean, Baskin School of Engineering University of California, Santa Cruz Kemper Lewis, Dean, School of Engineering &amp; Applied Sciences University at Buffalo</td>
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### Monday, April 15th

**9:15 AM – 10:30 AM**  
**Aragon II & III**  
**Session 1: The Impact of AI on Engineering Education**

In this session, we aim to explore the evolving landscape of Artificial Intelligence (AI) and Machine Learning (ML) in Higher Education, specifically within engineering programs. This session offers an in-depth examination of the following critical areas:  
1. **Transforming the Learning Experience:** how AI is going to revolutionize education through personalized learning pathways and intelligent tutoring systems; discuss innovative approaches to incorporating AI into the engineering curriculum.  
2. **Efficiency in Administration and Pedagogy:** Discuss ways AI enhances administrative processes, including enrollment management and academic advising, fostering greater efficiency and productivity.

The last part of this session will be devoted to an interactive discussion on future trends and opportunities in AI for engineering deans. The discussion points will include sharing experiences and insights from your engineering school regarding recent AI initiatives, challenges faced, and lessons learned, an open-ended discussion on how AI has impacted teaching, research, and administrative processes. The session will conclude with the “Survey Review”, and will present key findings from the survey, highlighting trends and current practices among engineering deans in integrating AI. This session will also discuss potential areas of growth, challenges to address, and innovations to anticipate.

**Organizers:**  
- Nader Jalili, Dean, Southern Methodist University, Session Lead  
- Aaron Bobick, Dean, Washington University in St. Louis  
- Amit Shukla, Dean, Seattle University

**Panelists:**  
- E. Bruce Pitman, Professor, University at Buffalo  
- Ian Lane, Associate Professor, University of California, Santa Cruz  
- Venugopal Govindaraju, Professor, University at Buffalo

**10:30 AM – 10:45 AM**  
**Aragon II & III**  
**Cool Ideas Session 1**

**Topics:**
- **AI Avatar Tutor:** David Grewell, Northern Illinois University College of Engineering and Engineering Technology
- **3MT (Three Minute Thesis):** Ann McKenna, University of Iowa College of Engineering
- **Embedded Mental Health Wellness Counselor:** Scott A. Ashford, Oregon State University College of Engineering

**10:45 AM – 11:15 AM**  
**Aragon Terrace West**  
**Morning Refreshment Break**

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**Monday, April 15th**
11:15 AM – 12:30 PM  
Aragon II & III  

Session 2: Navigating the AI Landscape - Bridging Academic Research and Industry Expectations

In this session, we aim to explore the dynamic interplay between academic research in Artificial Intelligence (AI) and the evolving expectations of the industry. As AI continues to shape the landscape of engineering education, it is crucial to understand how our research endeavors align with the practical needs of industries. We'll delve into the specific skills and knowledge that industry leaders anticipate from graduates entering the workforce. We will be also navigating discuss the ethical implications of AI in Higher Education, focusing on responsible use to ensure a positive impact on the educational experience. Join us for an insightful discussion on harmonizing academic excellence with industry expectations in the AI era.

Organizer:  
Nader Jalili, Southern Methodist University, Session Lead

Panelists:  
George Small, CTO, Moog  
Dave Copps, CEO, Worlds

12:30 PM – 1:30 PM  
Aragon II & III  

Monday Lunch  
Sponsored by FAMU-FSU College of Engineering

Sponsored Speaker:  
Dr. Suvranu De, Dean, FAMU-FSU College of Engineering

1:30 PM – 2:45 PM  
Aragon II & III  

Session 3: Data is Power: Strengthening Partnerships with Institutional Research

It is important for engineering deans to better understand which local structures influence performance, productivity, diversity and student attrition. To realize potential and improve operational efficiency, engineering leaders must leverage their Offices of Institutional Research (OIR) and explore factors/variables that are not so obvious. This session includes discussions of barriers, strategies, tactics, and resources for building collaborations with the office of institutional research and expanding data-driven decision making.

Speakers:  
Sunny Moon, Assistant Vice President, California State University, Los Angeles  
Matthew Ohland, Professor & Associate Head of Engineering Education, Purdue University  
Joe Roy, National Data Collections, American Society for Engineering Education  
Gregory Triplet, Dean, Saint Louis University

2:45 PM – 3:00 PM  
Aragon Foyer  

Cool Ideas Session 2

Topics:  
Elaine Marieb Center for Nursing & Engineering Innovation Grant Program, Sanjay Raman, UMass-Amherst College of Engineering  
Convincing Your Faculty to Simplify Their Curriculum, Jeffrey Holmes, University of Alabama at Birmingham School of Engineering  
Micron Student Success Center, JoAnn S. Lighty, Boise State University College of Engineering Dean

Monday April 15th 2024
We’re planting the seeds of the next technology revolution. The U.S. semiconductor industry employs nearly 2 million people. 15% of these jobs are in Oregon, and semiconductors account for almost half of the state’s exports. Oregon State University is committed to developing new technology to move the field forward and providing the growing workforce needed to support it.

It’s a commitment drawing national attention.

What’s next? Find out at beavs.es/semi
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<td>Aragon Terrace West</td>
<td>Afternoon Networking Break</td>
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<td>3:30 PM - 4:45 PM</td>
<td>Aragon II &amp; III</td>
<td>Session 4: Strengthening Pathways to Student Success</td>
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<td>Many of us are continuing to struggle with student retention in engineering programs. Students are demonstrating learning gaps both as entering students from the K-12 system and also as continuing students having difficulty retaining information from prerequisite courses. In this session we will share some examples of successful equity-minded initiatives designed to support student retention and academic success. We will also explore new ideas with participants in the audience. In this session the speakers below will share 5 minute “vignettes,” followed by table discussion with the goal of each person determining an idea that they will take back and try at their institutions.</td>
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<td>• Metacognition/self awareness in students: Nancy Lape, Harvey Mudd College</td>
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<td>• Improving culture in STEM spaces: Gustavo Menezes, Cal State LA, Eco-STEM</td>
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<td>• Peer Observation Tool and Resource Repository</td>
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<td>• Student success and equity: Susan Lord, University of San Diego, Sociotechnical curricula for required engineering classes</td>
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<td>• Student retention: Shelly Gulati, University of the Pacific, A First Year Advising Program</td>
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<td>5:00 PM - 6:00 PM</td>
<td>Aragon Terrace</td>
<td>Reception</td>
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<td>Sponsored by Oregon State University, College of Engineering &amp; Great Minds in STEM</td>
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<td>Sponsored Speaker:</td>
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<td>Scott Ashford, Dean of Engineering at Oregon State University</td>
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<td>6:00 PM - 8:00 PM</td>
<td>Bernardo Ballroom</td>
<td>Banquet &amp; Invited Keynote</td>
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<td>Sponsored by University of Louisville, Speed School of Engineering</td>
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<td>Sponsored Speaker:</td>
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<td>J.P. Mohsen, Associate Dean of Administration and Faculty Affairs</td>
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<td>University of Louisville</td>
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<td>Speaker:</td>
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<td>Chancellor Pradeep Khosla</td>
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<td>Aragon Terrace West</td>
<td>Exhibits</td>
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<td>8:00 AM – 9:00 AM</td>
<td>Aragon II &amp; III</td>
<td>Breakfast &lt;br&gt;Sponsored by School of Engineering and Applied Sciences, University at Buffalo</td>
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<td>9:00 AM – 10:15 AM</td>
<td>Aragon II &amp; III</td>
<td>Session 5: Making the Most of Your Advisory Council &lt;br&gt;Do you think you get the most out of your advisory council or board? In this interactive session, we will discuss different goals and structures of advisory councils, share and develop best practices for successful councils, and envision effective activities for its members. &lt;br&gt;&lt;br&gt;&lt;strong&gt;Speakers:&lt;/strong&gt; &lt;br&gt;Kemper Lewis, Dean, The University at Buffalo &lt;br&gt;Nancy Warter-Perez, Dean, California State University, Los Angeles &lt;br&gt;Andrea Welker, Dean, The College of New Jersey, Session Lead</td>
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<td>10:15 AM - 10:30 AM</td>
<td>Aragon II &amp; III</td>
<td>Cool Ideas: Session 3 &lt;br&gt;Topics: &lt;br&gt;Inclusive Engineering Mindset, Sara Atwood, Elizabethtown College School of Engineering and Computer Science &lt;br&gt;The Circuit, Yiannis Yortsos, USC Viterbi School of Engineering</td>
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<tr>
<td>10:30 AM - 11:00 AM</td>
<td>Aragon Terrace West</td>
<td>Morning Networking &amp; Refreshment Break</td>
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**Tuesday, April 16th**

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<th>Time</th>
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| 11:00 AM – 12:15 PM | **Session 6: Building Transformational Partnerships in Research and Education**  
Leading our engineering schools and colleges is becoming an increasingly complex enterprise with large-scale research collaborations, long-term industry partnerships, joint degree programs, global student recruitment, and international immersion experiences. It is important for engineering deans to better understand how to develop effective partnerships, improve collaboration, and create value for their institution. This session includes a discussion of selected examples, strategies, tactics, and resources for building and expanding these partnerships and collaborations.  
**Speakers:**  
Michelle Marcolongo, Dean of Engineering at Villanova University  
Jihui Yang, Vice Dean of the College of Engineering, University of Washington  
Yannis C. Yortsos, Dean, USC Viterbi School of Engineering |
| 12:15 PM – 12:30 PM | **Cool Ideas Session 4**  
**Topics:**  
NSF Advance grant SPACES: Supporting Women of Color Doing Community-engaged Environmental Research, Sheryl Ehrman, San José State University College of Engineering  
The EDGE Consortium, Alexis Abramson, Dartmouth Engineering |
| 12:30 PM - 2:00 PM  | **Tuesday Lunch and EDC Business Meeting**  
**Sponsored by HP Inc.**  
**Sponsored Speaker:**  
Tommy Gardner, Chief Technology Officer, HP Federal  
**BACK TO THE BASICS: USING DATA TO MAKE ETHICAL DECISIONS**  
Dr. Gardner’s talk will cover how the changes in Digital Technologies have brought up new problems in academia. It is time to get back to basics. Relay on fundamentals and first principles to establish the basis to safely and ethically use data. Dr. Gardner is the Chief Technology Officer of HP Federal, a career Submariner and an Adjunct Professor at Catholic University. |
The future is blue.

The oceans gave birth to life on our planet and hold the key to our survival. At the University of Rhode Island - the flagship public research university for the Ocean State - our connection with the ocean runs deep. From securing our national defense, to harnessing the wind and waves for clean energy, to assessing the impact of nano-plastics on marine ecosystems, to protecting our fragile coastal resources, for URI Engineering the future is blue.

URI Ocean and Civil Engineering Professor Chris Baxter installing structural health monitoring sensors at the Block Island Wind Farm.

URI Engineering by the numbers:

- $25 Million / Year National Institute for Undersea Vehicle Technology in partnership with UConn
- 4x increase in annual research awards since 2017
- 50% of engineering faculty funded by Office of Naval Research
- 1st Ocean Engineering Ph.D. program in the U.S.
- 100% of U.S. offshore wind farms instrumented with URI structural health monitoring and acoustic sensors

uri.edu/engineering
The Nation’s Only Joint College of Engineering

A Model LIKE NO OTHER

The FAMU-FSU College of Engineering blends exceptional research prowess with vibrant HBCU traditions, achieving groundbreaking research impacts:

**National High Magnetic Field Laboratory**
- Condensed matter
- Cryogenics
- Geochemistry

**Center for Advanced Power Systems**
- ESRDC Certified
- State-of-the-art of electric power technology for advanced power systems

**Applied Superconductivity Center**
- BSCCO (Bi-2212)
- Coated conductors
- Grain boundaries
- Low-temperature superconductors
- MgB2

FAMU-FSU College of Engineering
The Joint College of Engineering for Florida A&M University and Florida State University
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Details</th>
<th>Organizers</th>
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<tr>
<td>2:00 PM - 2:45 PM</td>
<td>Aragon II &amp; III</td>
<td>Session 7: Engaging with National Policy and Politics</td>
<td>This session is based on presentations and discussions from the 2024 Public Policy Colloquium held in February 2024. The primary focus of the colloquium will be on promoting engineering’s role in the new bioeconomy and the recent policies and regulations related to artificial intelligence. The session will include outcomes from the February 2024 ASEE Congressional visits, and corresponding potential future engagements and initiatives.</td>
<td>W. Samuel Easterling, Iowa State University, Public Policy Committee Chair,</td>
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<td>Kim LaScola Needy, University of Arkansas, Public Policy Committee Vice Chair</td>
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<tr>
<td>Tuesday, April 16th</td>
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<td>3:00 PM - 3:45 PM</td>
<td>Aragon II &amp; III</td>
<td>Session 8: Engaging with the ASEE Corporate Member Council (CMC)</td>
<td>Join this interactive session to have a dialogue with the ASEE Corporate Member Council (CMC) about academic/industry collaborations. The CMC serves as a bridge between the academia and industry to foster collaborations that drive innovation, educational excellence, and the development of engineering talent equipped to meet the challenges of tomorrow. Learn more about the mission of the CMC, key initiatives and learnings, and ways you and your institution can partner with the CMC in the future.</td>
<td>PJ Boardman, Global Director, STEM Outreach &amp; Workforce Development, Mathworks,</td>
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<td>Jordan Clarke, Senior Manager, Workforce Strategy &amp; Leadership Development, The Boeing Company,</td>
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<td>Jacqueline El-Sayed, Chief Executive Director, American Society for Engineering Education,</td>
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<td>Gregory Triplett, Dean, Saint Louis University</td>
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<td>Aragon Terrace West</td>
<td>Afternoon Networking &amp; Refreshment Break</td>
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<td>4:15 PM - 5:00 PM</td>
<td>Aragon II &amp; III</td>
<td>Session 9: Achieving ADRP Silver Recognition: A Discussion with the 2023-2025 Recipients</td>
<td></td>
<td>Alexis Abramson, Dean &amp; Professor of Engineering, Dartmouth College,</td>
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<td>Scott Ashford, Dean, Oregon State University,</td>
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<td>Javier Kypuros, Dean, University of Texas at Tyler,</td>
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<td>Lance Perez, Dean, University of Nebraska-Lincoln,</td>
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<td>Javier Kypuros, Dean, University of Texas at Tyler,</td>
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<td>5:30 PM - 7:00 PM</td>
<td>Aragon II &amp; III</td>
<td>Closing Reception</td>
<td>Sponsored by University of Rhode Island, College of Engineering</td>
<td>Dr. Anthony J. Marchese, Dean of Engineering, University of Rhode Island</td>
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</table>
SPEAKER LIST

Stephanie Adams  
Dean, The University of Texas - Dallas

Sam Easterling  
Dean, Iowa State University

Javier Kypuros  
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- 2023 Higher Education Excellence in Diversity Award from INSIGHT Into Diversity (seventh year in a row)
- #45 among the best global universities in 2023 by U.S. News & World Report
- $1.16 billion in research expenditures
- #16 in R&D spending (Higher Education Research and Development (HERD) Survey)
- #19 in Worldwide Universities Granted Utility Patents in 2023 (National Academy of Inventors)

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- 33% female enrollment (overall)
- 16% first generation enrollment (overall)
- Top 20 University Fostering Diversity & Inclusion (Minority Engineer Magazine)
- 10 National GEM Consortium Fellows since 2021
- 27 NSF CAREER Awardees since 2016
- $61.38 million in research expenditures for primary faculty
- $125.67 million for primary and engaged secondary faculty
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