



EDI

Program Book

2024 Engineering Deans Institute (EDI)

APRIL 14TH – APRIL 16TH, 2024

Rancho Bernardo Resort, San Diego, CA



DARTMOUTH ENGINEERING

Engineering is what we do. Humanity is the reason why.

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.

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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.



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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.



WELCOME

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 keynote. 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

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VISIONARY



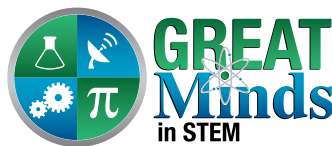
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Creating Systemic Change Together

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.

Sign Up Today

Engineering PLUS Alliance



Award #2119930

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.



Become a stEm PEER change agent at your institution.

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.



Learn more about our efforts.

N Northeastern University
College of Engineering

coe.northeastern.edu

EDI SCHEDULE

Sunday, April 14th

10:30 AM - 6:00 PM
Aragon Foyer

Registration

11:30 AM - 1:15 PM
Aragon 1A

EDC Executive Board Meeting

12:30 PM - 1:15 PM
Aragon 1C

EDC Diversity Committee

1:30 PM - 2:15 PM
Aragon 1A

Public Policy Committee Meeting

2:30 PM - 3:15 PM
Aragon 1A

Data Committee Meeting

1:30 PM - 3:15 PM
Aragon 1C

Primarily Undergraduate Institutions (PUI) Meeting

3:30 PM - 5:30 PM
Aragon II & III

Deans Forum: New, Recent, & Curious Deans

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*

5:15 PM - 8:00 PM
UC San Diego

Welcome Reception at UC San Diego

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

EDI SCHEDULE

Monday, April 15th

8:00 AM - 5:00 PM
Aragon Foyer

Registration

8:00 AM - 5:00 PM
Aragon Terrace West

Exhibits

8:00 AM - 9:00 AM
Aragon II & III

Breakfast

Sponsored by Northeastern University, College of Engineering: Creating Systemic Change Together

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.

This presentation is a call to action describing current challenges and opportunities to address those challenges by participating in national programs capable of creating systemic change to increase diversity in engineering. Programs highlighted include the Engineering PLUS Alliance, a \$10 million National Science Foundation INCLUDES five-year award led by Northeastern University with partner institutions, including the ASEE, as well as a university neurodiversity workforce initiative, a new collaboration among engineering schools at Northeastern University, Vanderbilt University, Fisk University, and University of Connecticut, as well as the College Autism Network

Speakers:

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*

9:00 AM - 9:15 AM
Aragon II & III

Welcome Remarks

EDI Co-Chairs

Alex Wolf, *Dean, Baskin School of Engineering
University of California, Santa Cruz*

Kemper Lewis, *Dean, School of Engineering & Applied Sciences
University at Buffalo*

EDI SCHEDULE

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 encourage participants to share additional insights or observations not captured in the survey. It 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

Monday, April 15th

EDI SCHEDULE

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

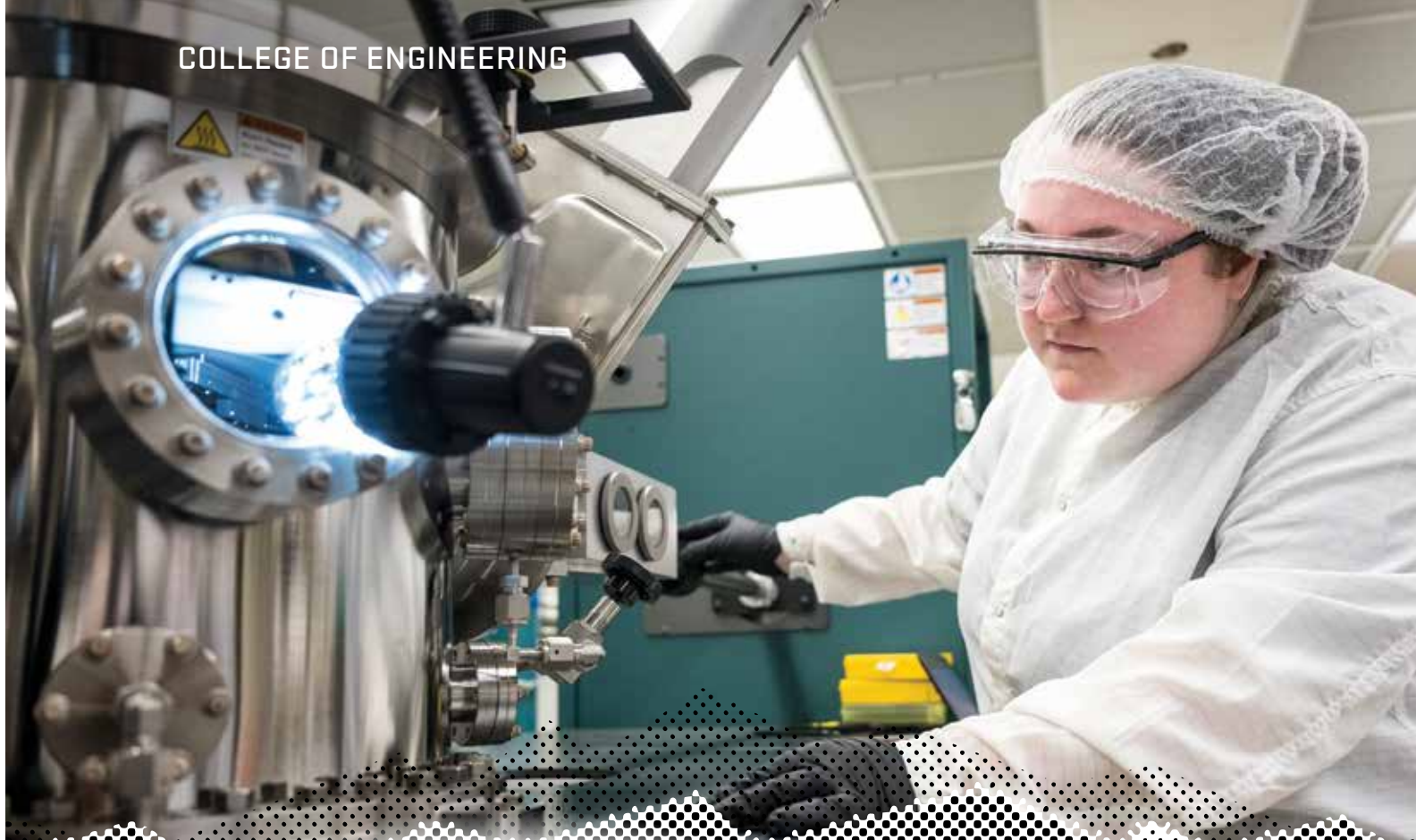
Topics:

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



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Oregon State
University

EDI SCHEDULE

3:00 PM - 3:30 PM
Aragon Terrace West

Afternoon Networking Break

3:30 PM - 4:45 PM
Aragon II & III

Session 4: Strengthening Pathways to Student Success

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.

- Metacognition/self awareness in students: Nancy Lape, Harvey Mudd College
- Improving culture in STEM spaces: Gustavo Menezes, Cal State LA, Eco-STEM
- Peer Observation Tool and Resource Repository
- Student success and equity: Susan Lord, University of San Diego, Sociotechnical curricula for required engineering classes
- Student retention: Shelly Gulati, University of the Pacific, A First Year Advising Program

Session Organizers:

Elizabeth Orwin, *Dean, University of the Pacific, Session Lead*

Durga Suresh-Meno, *Dean, Wentworth Institute of Technology*

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

Sharon Zelmanowitz, *Dean, US Coast Guard Academy*

5:00 PM - 6:00 PM
Aragon Terrace

Reception

Sponsored by Oregon State University, College of Engineering & Great Minds in STEM

Sponsored Speaker:

Scott Ashford, *Dean of Engineering at Oregon State University*

6:00 PM - 8:00 PM
Bernardo Ballroom

Banquet & Invited Keynote

Sponsored by University of Louisville, Speed School of Engineering

Sponsored Speaker:

J.P. Mohsen, *Associate Dean of Administration and Faculty Affairs
University of Louisville*

Speaker:

Chancellor Pradeep Khosla

Ticket Required to attend the Banquet

EDI SCHEDULE

Tuesday, April 16th

8:00 AM - 5:00 PM Aragon Foyer	Registration
8:00 AM - 5:00 PM Aragon Terrace West	Exhibits
8:00 AM - 9:00 AM Aragon II & III	Breakfast <i>Sponsored by School of Engineering and Applied Sciences, University at Buffalo</i>
9:00 AM - 10:15 AM Aragon II & III	Session 5: Making the Most of Your Advisory Council 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. Speakers: Kemper Lewis , <i>Dean, The University at Buffalo</i> Nancy Warter-Perez , <i>Dean, California State University, Los Angeles</i> Andrea Welker , <i>Dean, The College of New Jersey, Session Lead</i>
10:15 AM - 10:30 AM Aragon II & III	Cool Ideas: Session 3 Topics: Inclusive Engineering Mindset , Sara Atwood , <i>Elizabethtown College School of Engineering and Computer Science</i> The Circuit , Yiannis Yortsos , <i>USC Viterbi School of Engineering</i>
10:30 AM - 11:00 AM Aragon Terrace West	Morning Networking & Refreshment Break

Tuesday, April 16th

11:00 AM - 12:15 PM
Aragon II & III

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
Aragon II & III

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
Aragon II & III

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. Rely 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.

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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

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MgB2



FAMU-FSU
College of Engineering

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EDI SCHEDULE

2:00 PM - 2:45 PM
Aragon II & III

Session 7: Engaging with National Policy and Politics

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.

Organizers:

W. Samuel Easterling, Iowa State University, Public Policy Committee Chair

Kim LaScola Needy, University of Arkansas, Public Policy Committee Vice Chair

Tuesday, April 16th

3:00 PM - 3:45 PM
Aragon II & III

Session 8: Engaging with the ASEE Corporate Member Council (CMC)

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.

Speakers:

PJ Boardman, Global Director, STEM Outreach & Workforce Development, Mathworks

Jordan Clarke, Senior Manager, Workforce Strategy & Leadership Development, The Boeing Company

Jacqueline El-Sayed, Chief Executive Director, American Society for Engineering Education

Gregory Triplett, Dean, Saint Louis University

3:45 PM - 4:15 PM
Aragon Terrace West

Afternoon Networking & Refreshment Break

4:15 PM - 5:00 PM
Aragon II & III

Session 9: Achieving ADRP Silver Recognition: A Discussion with the 2023-2025 Recipients

Speakers:

Alexis Abramson, Dean & Professor of Engineering, Dartmouth College

Scott Ashford, Dean, Oregon State University

Javier Kypuros, Dean, University of Texas at Tyler

Lance Perez, Dean, University of Nebraska-Lincoln

Organizers

Javier Kypuros, Dean, University of Texas at Tyler

5:30 PM - 7:00 PM
Aragon II & III

Closing Reception

Sponsored by University of Rhode Island, College of Engineering

Sponsored Speaker:

Dr. Anthony J. Marchese, Dean of Engineering, University of Rhode Island

SPEAKER LIST



Stephanie Adams
Dean, The University of Texas - Dallas



Sam Easterling
Dean, Iowa State University



Javier Kypuros
Dean, University of Texas-Tyler



Gregory Abowd
Dean, Northeastern University



Jacqueline El Sayed
Chief Executive Director, American Society for Engineering Education



Nancy Lape
Dean, Harvey Mudd College,



Alexis Abramson
Dean, Dartmouth College



Tommy Gardner
Chief Technology Officer, HP Federal



Kemper Lewis
Dean, University at Buffalo – SUNY



Scott Ashford
Dean, Oregon State University



Venu Govindaraju
VPRED, University at Buffalo



Susan Lord
Chair & Professor, University of San Diego



PJ Boardman
Director, Mathworks



Shelly Gulati
Assistant Dean, University of the Pacific



Anthony J. Marchese
Dean of Engineering, University of Rhode Island



Jordan Clarke
Senior Manager, The Boeing Company



Richard Harris
Associate Dean for Diversity, Equity & Inclusion, Northeastern University



Gustavo Menezes
Professor & Chair, California State University - Los Angeles



Dave Copps,
COE, Worlds



Nader Jalili
Dean, Southern Methodist University



J.P. Mohsen
Associate Dean of Administration and Faculty Affairs, University of Louisville



Suvranu De
Dean, FAMU-FSU College of Engineering



Pradeep Khosla
Chancellor, University of California, San Diego



Sunny Moon
Assistant Vice President, California State University - Los Angeles

SPEAKER LIST



Kim LaScola Needy
Dean, University of Arkansas



Krishnendu Roy
Dean, Vanderbilt University



Andrea Welker
Dean, The College of New Jersey



Matthew Ohland
Professor & Associate Head, Purdue University



George Small
CTO of Moog



Jihui Yang
Vice Dean, University of Washington



Lance Perez
Dean, University of Nebraska



Cole Smith
Dean, Syracuse University



Yannis Yortsos
Dean, USC Viterbi School of Engineering



Bruce Pitman
CIO and Professor, University at Buffalo



Gregory Triplett
Dean, Saint Louis University



Joe Roy
National Data Collections, American Society for Engineering Education



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



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Speaker Biographies



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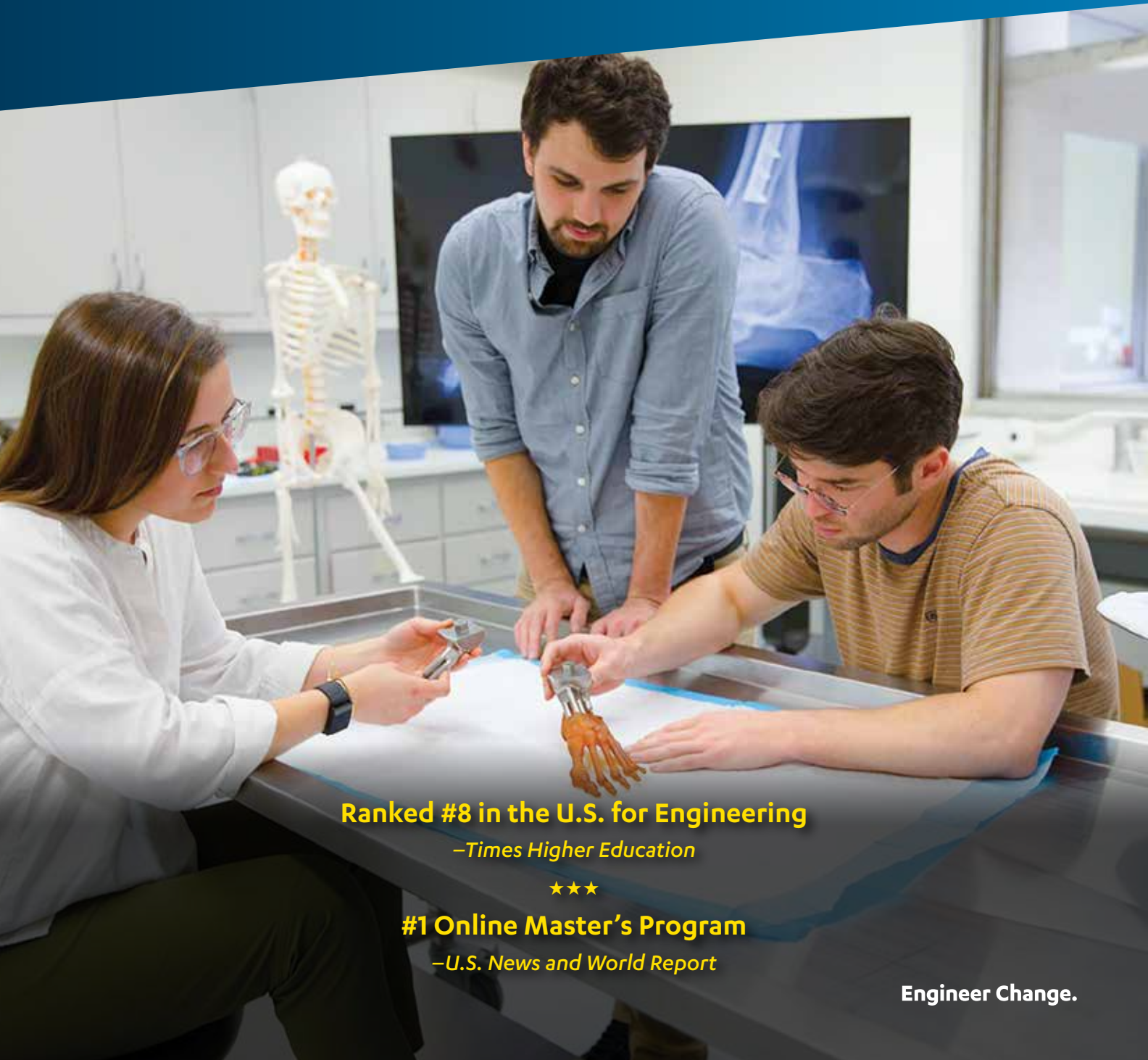
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Ronald and Valerie Sugar Dean
UCLA Samueli School of Engineering



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Pittsburgh

Swanson School
of Engineering

Fast Facts

University of Pittsburgh

- Top Fulbright Producer for 2023-24 (114 Scholars since 2013)
- 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)

Swanson School of Engineering

- 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
- 38% funding from NSF, 25% from NIH

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Celebrate a century of excellence in engineering education with the J.B. Speed School of Engineering at the University of Louisville! As we prepare to commemorate our 100th anniversary in 2025, we embark on an exciting campaign to construct a state-of-the-art engineering building, poised to shape the next century of innovation and discovery. This ambitious endeavor aims to provide cutting-edge facilities and resources that will inspire the

brightest minds to push the boundaries of scientific exploration. With world-class laboratories, collaborative spaces, and advanced technology at their fingertips, faculty and technology leaders of tomorrow will unlock new frontiers in engineering, driving progress in sustainable energy, biomedical engineering, artificial intelligence, and beyond. Join us in shaping the future as we build upon a legacy of engineering excellence and forge ahead toward limitless possibilities. Together, we will continue to cultivate the engineers and leaders of tomorrow to transform the world through ingenuity and innovation.



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