



2018 Engineering Deans Institute (EDI)

The Roosevelt New Orleans Hotel
New Orleans, LA
April 8-11, 2018

PROGRAM

SUNDAY, APRIL 8, 2018

11:00 a.m. – 3:00 p.m.	EDI Registration <i>Crescent City Ballroom Foyer</i>
11:30 a.m. – 1:30 p.m.	EDC Executive Board Meeting (Invitation only) <i>Conti Room</i>
12:00 p.m. – 1:30 p.m.	Undergraduate-focused Engineering Deans Group Meeting (Ticketed event/ no additional fee*) <i>Chamber 3</i>

For the first time, we are assembling a group of engineering deans at EDI 2018 whose colleges or schools have a significant focus on undergraduate engineering programs and who have an interest in contributing to a new network of engineering colleges with common interests and challenges toward collaborating on best practices.

Over a working lunch, we will introduce ourselves, discuss possible group goals and approaches, and decide on next steps. We envision our group sharing challenges and best practices, seeking opportunities for collaboration, and evolving a common shared vision for undergraduate engineering education. We will distribute a survey to all interested participants prior to the event, the results of which will be one topic of conversation.

** Please note: This opportunity was open to the first 30 attendees who registered for EDI 2018 and who have added a ticket for this meeting (registration was on a first come, first served basis — no space is available).*

Organizers:

JB Holston, *Dean of Engineering, University of Denver*
Patrick Mather, *Dean of Engineering, Bucknell University*

1:30 p.m. – 2:30 p.m. **EDC Public Policy Committee Meeting (Invitation only)**
Conti Room



2:30 p.m. – 4:30 p.m. **New Deans' Forum**
Bienville Room

The role of the engineering dean is increasingly multifaceted and complex. This panel discussion and question-and-answer session provides an opportunity for new (and not-so-new) deans to interact with other deans and learn successful strategies for fundraising, faculty/staff relations, strategic planning, onboarding, and more.

Coordinators:

Molly M. Gribb, *Dean of Engineering, Mathematics and Science, University of Wisconsin-Platteville*

Jeffrey L. Ray, *Dean of Engineering and Technology, Western Carolina University*

Moderator:

Molly M. Gribb, *Dean of Engineering, Mathematics and Science, University of Wisconsin-Platteville*

Facilitators:

Molly M. Gribb, *Dean of Engineering, Mathematics and Science, University of Wisconsin-Platteville*

Joseph C. Hartman, *Dean, Francis College of Engineering, University of Massachusetts—Lowell*

Sarah A. Rajala, *James L. and Katherine S. Melsa Dean of Engineering, Iowa State University*

Jeffrey L. Ray, *Dean of Engineering and Technology, Western Carolina University*

4:00 p.m. – 5:30 p.m. **Data Collection Committee Meeting (Invitation only)**
Conti Room

5:30 p.m. – 6:00 p.m. **Transportation from The Roosevelt Hotel to The National WWII Museum**

6:00 p.m. – 8:00 p.m. **Welcome Reception**
Sponsored by: Louisiana Tech University, University of South Alabama, Southern University and A&M College, McNeese State University, Auburn University, and University of Louisiana at Lafayette
The National WWII Museum
Address: 945 Magazine Street, New Orleans, LA 70130

Welcome by:

Nicholas J. Altiero, *Former Dean of Engineering, Tulane University, 2018 EDI Co-Chair*

8:00 p.m. **Transportation to The Roosevelt Hotel**

MONDAY, APRIL 9, 2018

Sponsor display tables are available during *refreshment and networking breaks*.



7:00 a.m. – 5:00 p.m. **EDI Registration**
Crescent City Ballroom Foyer

7:30 a.m. – 9:00 a.m. **Welcome Breakfast**
Waldorf Astoria Ballroom

Welcome by:

Gregory Washington, *Dean of Engineering, University of California, Irvine, EDC Chair*
Nicholas J. Altiero, *Former Dean of Engineering, Tulane University, 2018 EDI Co-Chair*

9:00 a.m. – 10:15 a.m. **Initial Session: Flood Protection* | Followed by Cool Ideas — Lightning Round (Part 1)**
Crescent City Ballroom

Coordinator:

Ehab Meselhe, *VP for Engineering, The Water Institute of the Gulf*

Moderator:

Mark E. Zappi, *Dean of Engineering, University of Louisiana at Lafayette*

Panel Participants:

Emad Habib, *Professor of Civil Engineering, University of Louisiana at Lafayette*
Ignacio Harrouch, *Chief of Operations, Coastal Protection and Restoration Authority*
Robert Turner, *Regional Director, Southeast Louisiana Flood Protection Authority – East*

** We organized this session in relation to one of the tours presented to attendees on Wednesday. Please see Wednesday's program for tour details.*

Cool Ideas—Lightning Round (Part 1)

Deans present their “cool” ideas. There are four *Cool Ideas* sessions – two on Monday and two on Tuesday. Each participant has four minutes to present something exciting about their program that can be helpful to fellow deans. Past presentations have included: innovative pedagogical methods, course topics, recruitment practices, freshman bridge programs, methods to stimulate collaborative research, and working with advisory boards. This session is also a chance for deans with cool ideas to find collaborators who can help bring them to fruition.

Coordinator and Moderator:

Larry A. Stauffer, *Dean of Engineering, University of Idaho*

Participants:

Scott Ashford, *Oregon State University*
Gilda A. Barabino, *The City College of New York*
Barbara D. Boyan, *Virginia Commonwealth University*
Bob Chasnov, *Cedarville University*
Lance Collins, *Cornell University*
Jennifer Sinclair Curtis, *University of California, Davis*
Hesham El-Rewini, *University of North Dakota*
John R. English, *University of Arkansas*
James H. Garrett, *Carnegie Mellon University*
Robert F. Harder, *George Fox University*

Ron Harichandran, *University of New Haven*
 Joseph Hartman, *University of Massachusetts, Lowell*
 Eric Johnson, *Valparaiso University*
 Kazem Kazerounian, *University of Connecticut*
 Kevin L. Moore, *Colorado School of Mines*
 Jayathi Murthy, *University of California, Los Angeles*
 Devdas Shetty, *University of the District of Columbia*
 Steve Schreiner, *The College of New Jersey*
 Fotis Sotiropoulos, *Stony Brook University*
 Paul J. Tikalsky, *Oklahoma State University*
 Rama Venkat, *University of Nevada, Las Vegas*
 Sharon L. Walker, *University of California, Riverside*
 Yannis Yortsos, *University of Southern California*



10:15 a.m. – 11:00 a.m.

Refreshment and Networking Break
 Sponsored by Virginia Commonwealth University School of Engineering
 Blue Room

11:00 a.m. – 12:30 p.m.

2nd Session/Panel: Educating the Engineer of 2020: Best Practices
 Crescent City Ballroom

Fourteen years have elapsed since the National Academy of Engineering published *The Engineer of 2020: Visions of Engineering in the New Century* in 2004. The last cohort of engineering undergraduate students who will graduate in 2020 entered college in 2016. How much progress have engineering colleges around the country achieved toward fulfilling the vision espoused by the NAE? Five panelists will describe exemplary practices around the country toward educating the Engineer of 2020.

Coordinator and Moderator:

Ron Harichandran, *Dean of Engineering, University of New Haven*

Panel Participants:

Ron Harichandran, *Dean of Engineering, University of New Haven*

Vincent Manno, *Dean of Engineering, Olin College*

Matthew Ohland, *Professor of Engineering Education, Purdue University*

Kyle Squires, *Dean of Engineering, Arizona State University*

Ron Welch, *Dean of Engineering, The Citadel*

12:30 p.m. – 2:00 p.m.

Luncheon and Keynote Address
 Sponsored by: Dassault Systèmes
 Waldorf Astoria Ballroom

Keynote Speaker:

Xavier Fouger, *Senior Director, Global Academia Programs at Dassault Systèmes*

A New Literacy for Engineers of the Industry Renaissance?

Learning—not just new things but new ways of thinking—is a lifelong endeavor in the context of the ongoing Industry Renaissance. Living in an increasingly digitalized world also adds new dimensions to the profile of the workforce of the future. Beyond the perspective of mastering the power of digitalization, successful engineers will have to feel familiar in dealing with new ethical challenges, new security issues, new ways to interact, and above all, with the freedom and difficulty of driving their careers along a fragmented employment journey. The presentation explores some consequences of these trends on engineering education and how they are addressed in pioneering institutions across the globe.

2:00 p.m. – 3:30 p.m.

3rd Session: Diversity

Sponsored by: Colorado School of Mines

Crescent City Ballroom



Interactive Exploration of Unconscious Bias in Tenure and Promotion Processes

We will engage with an acting troupe portraying tenure and promotion scenarios, revealing elements of unconscious bias. Through discussions among deans and with the acting troupe, we will discover aspects of tenure and promotion processes that offer opportunities for improvement to mitigate bias. This session will be eye opening and game changing to your home institution.

Coordinators and Moderators:

Emily L. Allen, *Dean of Engineering, California State University, Los Angeles*

Patrick T. Mather, *Dean of Engineering, Bucknell University*

Led by: Jeffrey A. Steiger, *Artistic Director of the New Theater of Medicine and Clinical Instructor for Psychiatry, George Washington University School of Medicine*

3:30 p.m. – 4:30 p.m.

Refreshment and Networking Break

Blue Room

4:30 p.m. – 6:00 p.m.

4th Session: P12 and Outreach | Followed by Cool Ideas—Lightning Round (Part 2)

Crescent City Ballroom

P12 engineering education and outreach is part of ASEE's mission to advance innovation, excellence, and access at all levels of education for the engineering profession. With a growing national interest in STEM education and outreach, there is an opportunity and a need for engineering colleges to work with the broader educational community to address P12 engineering education. This panel includes STEM educators and coordinators from school systems to discuss the challenges and opportunities for implementing engineering education in the K12 system, as well as, from their perspective, effective engineering outreach programs.

Coordinator and Moderator:

Hisham Hegab, *Dean of Engineering, Louisiana Tech University*

Panel Participants:

Nathan Cotten, *LaSTEM LSTA Representative, STEM Curriculum Specialist, Terrebonne Parish School District*

Cathi Cox-Boniol, *ACHIEVE Coordinator, Lincoln Parish Schools, ITEEA Louisiana Director for the Engineering by Design Consortium*

Jada D. Lewis, *BESE Member 8th District, Assistant Dean for Diversity, LSU College of Engineering, Student Services, and Diversity Initiatives*

Darrell McDaniel, *STEM Educator Development Leader, Calcasieu Parish School Board*

Cool Ideas—Lightning Round (Part 2)

Coordinator and Moderator:

Larry A. Stauffer, *Dean of Engineering, University of Idaho*

7:00 p.m. – 7:30 p.m.

EDI Reception

Sponsored by: Oregon State University, The Boeing Company,
MathWorks, University of Miami
Blue Room

**Speaker:**

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

7:30 p.m. – 9:00 p.m.

Banquet

Sponsored by: Louisiana State University
Waldorf Astoria Ballroom

Speaker:

Judy Wornat, *Dean and Bert S. Turner Chair in Engineering, Louisiana State University*

TUESDAY, APRIL 10, 2018

Sponsor display tables are available during *refreshment and networking breaks*.

7:30 a.m. – 5:00 p.m.

EDI Registration

Crescent City Ballroom Foyer

7:30 a.m. – 8:30 a.m.

Breakfast and Keynote Address

Sponsored by: University of Florida
Waldorf Astoria Ballroom

Keynote Speaker: TBA

8:30 a.m. – 9:45 a.m.

5th Session/Discussion: The Mars Mission* | Followed by Cool Ideas—Lightning Round (Part 3)

Crescent City Ballroom

Coordinator and Moderator:

Emir J. Macari, *Dean of Engineering, University of New Orleans*

Presenter: TBA

** We organized this session in relation to one of the tours presented to attendees on Wednesday. Please see Wednesday's program for tour details.*

Cool Ideas—Lightning Round (Part 3)**Coordinator and Moderator:**

Larry A. Stauffer, *Dean of Engineering, University of Idaho*

9:45 a.m. – 10:30 a.m.

Refreshment and Networking Break

Sponsored by: West Virginia University
Blue Room

10:30 a.m. – 11:30 a.m.

6th Session: ABET AAC Listening Session
Crescent City Ballroom



Are you aware that ABET has an Academic Advisory Council (AAC)? Did you know that the AAC represents all four ABET commissions? Provosts, deans, and chairs from a variety of institutions across North America populate the AAC. It is one of three councils providing recommendations to the ABET Board of Directors on issues of importance, particularly to the academic community. This listening session will highlight the impactful work of the AAC, review its current initiatives, and invite attendees to present topics and issues for the AAC to consider working on to make meaningful and helpful changes to ABET processes and practices.

Coordinator:

Jeffrey L. Ray, *Dean of Engineering and Technology, Western Carolina University*
(ABET AAC Chair)

Moderators:

Jeffrey L. Ray, *Dean of Engineering and Technology, Western Carolina University*
(ABET AAC Chair)
Joe Sussman, *Chief Accreditation Officer, Chief Information Officer, ABET Inc.*

11:30 a.m. – 12:30 p.m.

EDC Business Meeting
Crescent City Ballroom

12:30 p.m. – 2:00 p.m.

Luncheon and Keynote Address
Sponsored by: Samuelli Foundation
Waldorf Astoria Ballroom

Keynote Speaker:

Gerald R. Solomon, *Executive Director, Samuelli Foundation*

The Future Relevance of Engineering Schools

We know the issues. We know the challenges. But do we have the solutions? Gerald Solomon, Executive Director of the Samuelli Foundation, and founder and co-chair of the national STEM Learning Ecosystem Initiative, will share the results of three years of work and research spanning 56 cities across the nation that looks at the intersectionality between post-secondary education and key community stakeholders. The presentation will highlight several successful programs, pose questions concerning the role of engineering schools in the community, and suggest calls to action that will optimize their future relevance.

2:00 p.m. – 3:30 p.m.

**7th Session: Corporate Member Council (CMC) Session | Followed by Cool Ideas—
Lightning Round (Part 4)**
Crescent City Ballroom

Preparing Engineering Students for Employment with New Credential Models

This session will explore new credentialing and analysis models and discuss methods to advance personalized learning in an emergent knowledge economy. Industry panelists will speak to the connections between technology, courseware, and employer-ready credentials.

Coordinator and Moderator:

Cynthia Murphy-Ortega, *Manager, University Partnerships and Association Relations,*
Chevron Corporation

Panel Participants:

Mark Cousino, *Director of Learning Strategy, Design, and Technology, The Boeing Company*

Dora Smith, *Senior Director, Global Academic Program, Siemens PLM Software*

Dave Wilson, *Vice President, Product Marketing for Software, Academics and Customer Education, National Instruments*

**Cool Ideas—Lightning Round (Part 4)****Coordinator and Moderator:**

Larry A. Stauffer, *Dean of Engineering, University of Idaho*

3:30 p.m. – 4:30 p.m.

Refreshment and Networking Break

Sponsored by: Northrop Grumman

Blue Room

4:30 p.m. – 6:00 p.m.

Parallel Sessions**1. Mentoring Connections**

Sponsored by: Valparaiso University, Grand Valley State University

Lafite Room

Organizer:

Gregory Washington, *Dean of Engineering, University of California, Irvine*

2. Women Deans Networking Meeting

Sponsored by: University of Virginia, University of Florida

Waldorf Astoria Ballroom

Everyone is welcome to attend this networking session with women engineering deans.

Organizers:

Gilda A. Barabino, *Dean of Engineering, The City College of New York*

Molly M. Gribb, *Dean of Engineering, Mathematics and Science, University of Wisconsin-Platteville*

3. Challenging Issues on Campus

Pontalba Room

Organizers:

John Steadman, *Dean of Engineering, University of South Alabama*

Gregory Washington, *Dean of Engineering, University of California, Irvine*

7:00 p.m. – 8:30 p.m.

Closing Reception

Sponsored by: Louisiana Tech University, University of South Alabama, Southern University and A&M College, McNeese State University, Auburn University, University of Alabama at Birmingham, and University of Louisiana at Lafayette

Blue Room

Closing Remarks:

Gilda A. Barabino, *Dean of Engineering, The City College of New York, 2018 EDI Co-Chair*



WEDNESDAY, APRIL 11, 2018

We are pleased to present two events to attendees at the conclusion of EDI (you will need to choose one event and register for it)*.

❖ **Flood Protection Tour 8:00 a.m. – 12:00 p.m.**

This tour is open to all deans who register for EDI 2018 and who preregister—see below. Registration is available on a first-come, first-served basis. There are **30 seats available**.

We will visit the Lake Borgne Surge Barrier and the 17th Street Canal Pump Station. These are components of the Hurricane and Storm Damage Risk Reduction System (HSDRRS) that were put in place following Hurricane Katrina to protect the city of New Orleans and surrounding communities. They include levees, surge barriers, and pump stations.

Note: On the day of the tour, please bring ID with you.

To register, please log in to your ASEE account and in your registration for EDI conference choose the event “Flood Protection Tour” and add a ticket (if at that time registration is still open based on availability). We will announce the details of the tour closer to the event.

Coordinator:

Mark E. Zappi, *Dean of Engineering, University of Louisiana at Lafayette*

Organizer:

Ehab Meselhe, *VP for Engineering, The Water Institute of the Gulf*

❖ **NASA’s Michoud Assembly Facility—The Boeing Company Tour 8:00 a.m. – 1:00 p.m.** Sponsored by: The Boeing Company

This tour is open to all deans who register for EDI 2018 and who preregister—see below. Registration is available on a first come, first served basis; there are **30 seats available**.

Note: Participants must be citizens or permanent residents of the USA and must send a copy of their driver’s license to organizer Emir Macari (emacari@uno.edu) by **Friday, March 9, 2018**.

To register, please log in to your ASEE account and in your registration for EDI conference choose the event “Michoud Assembly Facility Tour” and add a ticket (if at that time the registration is still open based on availability). We will announce the details of the tour closer to the event.

Organizer:

Emir J. Macari, *Dean of Engineering, University of New Orleans*

