Make a Difference
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Join a Network of Experts
Program Evaluators are thought leaders in their fields. They are seasoned professionals — senior faculty, deans, industry leaders and government representatives — dedicated to improving STEM education.

If you have the specialized knowledge, experience and passion to enhance the education of students all over the world, then we want to talk to you about becoming an evaluator.

Reasons to Become a Program Evaluator
1. Contribute your knowledge and insight to improve education in your discipline.
2. See innovative instructional methods at an array of institutions.
3. Get an insider’s view of the ABET accreditation criteria and process.
4. Become part of a passionate community of thought leaders that crosses the borders of geography, discipline and sector.

The Commitment — Approximately 5 Days a Year
> 3 hours of online pre-visit preparation
> 2 days reviewing program materials
> 2.5 days for the on-site visit, plus travel

These activities usually take place between July and December.

Yearly selection to review a program will be based on the demand for evaluators in your specific discipline.

Evaluating Programs
Your contribution starts on the ground, on campuses around the world, working with a team of fellow experts to evaluate programs that aspire to be accredited.

ABET review teams are comprised of a Team Chair to guide the process and a Program Evaluator from each program area that is being considered for accreditation. You will work with your team to review a program’s comprehensive educational report (Self-Study Report), travel to the campus for an on-site review and determine if the program has met the criteria to be accredited.

Apply now at www.abet.org/program-evaluators
Welcome to the 2019 Engineering Deans Institute (EDI) – and welcome to the great State of Texas!

There has been much discussion in recent years, in venues from the World Economic Forum to the National Academy of Engineering, about the world being at a tipping point of how we work and live. Labeled the fourth industrial revolution, this era is driven by emerging, rapidly-changing, advanced technologies and processes arising from the convergence of the physical, digital, and biological worlds. This convergence is leading to higher levels of systems complexity and challenging the nature of work, the shared economy, organizational structures, communities, and quality-of-life.

At the same time, the United States is experiencing accelerated growth and geographic shifts of racial and ethnic groups, who remain underrepresented in engineering in spite of federally funded interventions over several decades. It’s time to change the conversation. Furthermore, the decline of international students, particularly in many engineering graduate programs, heightens uncertainties in the research enterprise.

All these dynamics are impacting the engineering profession.

In response, the 2019 EDI program highlights areas of strategic interest to the future vitality of engineering colleges, industry, and the engineering profession in these contexts. The program ranges from discussions of disruptive research areas to an integrated look at innovations in engineering preparation, from PK-12 to the undergraduate and graduate levels, with diversity and inclusion as powerful threads throughout. Provocative keynote speakers will launch these discussions.

In addition, there is a town hall scheduled to discuss the collection and use of data in ranking and evaluating engineering programs and colleges.

The sessions will be generally interactive, involving diverse panelists and engaging attendees in substantive discussions. The ASEE Corporate Member Council was active in structuring parts of the program.

And, yes, there will be time to network with our colleagues!

Finally, there are three exceptional tours scheduled for Wednesday morning that bring together the themes of the EDI: Southwest Research Institute, the San Antonio Water System (SAWS) Desalination Plant, and the CPS Energy Solar Farm.

We look forward to seeing you in the beautiful City of San Antonio!
### EXECUTIVE BOARD 2018 - 2019

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<td>Secretary 2017-2019</td>
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<td>Stephanie Farrell</td>
<td>ASEE President 2018-2019</td>
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2019 EDI Planning Committee

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EDI Co Chair
The University of Texas at El Paso

Javier Kypuros
EDI Co Chair
The University of Texas at Tyler

Mohammad Alam
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Emily Allen
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Winston Erevelles
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Michelle Sabick
St. Louis University

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The College of New Jersey

Joseph Sussman
ABET

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Ashley Krawiec
Event Sales Manager, Conferences

Virona Mehta
Associate Board Secretary, Council Affairs
SATURDAY, APRIL 6, 2019

Annual Meeting of Engineering Programs at Catholic Institutions

SUNDAY, APRIL 7, 2019

11:00 A.M. - 3:00 P.M.  EDI Registration—San Antonio Grand Foyer
11:30 A.M. - 1:30 P.M.  EDC Executive Committee—San Jose & Terrace
1:00 P.M. - 3:00 P.M.  Engineering Programs at Regional Institutes—San Felipe
Organizers:
Denise Martinez, Tarleton State University
Brent Donham, Texas A&M University—Commerce
Steve Starrett, LeTourneau University

Engineering schools and colleges at regional institutions, especially those without doctoral programs, face many unique challenges. These include, but are not limited to, heavy teaching loads, mentoring, establishing research agendas, faculty retention, financial resources, and professional development. This interactive session will provide an opportunity for participants to discuss these and other challenges in addition to sharing best practices with colleagues.

1:30 P.M. - 2:30 P.M.  Public Policy Committee—San Jose & Terrace
3:30 P.M. - 5:30 P.M.  New Deans Forum—San Miguel
Organizer:
Molly Gribb, University of Wisconsin—Platteville; Michelle Sabick, St. Louis University

The role of 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 effective advisory boards and industry partnerships, positive working relationships with chairs and provosts, resource allocation, and more.

Moderator:
Michelle Sabick, Dean of the Parks College of Engineering, Aviation, and Technology, St. Louis University

Panelists:
M. Katherine Banks, Vice Chancellor of Engineering and National Laboratories, Texas A&M University System; Dean of Engineering, Texas A&M University; Director, Texas A&M Engineering Experiment Station
Ian Robertson, Dean of Engineering, University of Wisconsin—Madison
Eric W. Johnson, Dean, College of Engineering, Valparaiso University
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Ranked 12th in the nation with 31% female graduate students*

*among self-reporting AAU institutions (Fall 2018)

google-rice.edu
6:30 p.m. – 8:30 p.m.  Welcome Reception—University of Texas–San Antonio
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The University of Texas at San Antonio and St. Mary’s University

Large Scale Testing Facility – UTSA
Address: One UTSA Circle, San Antonio, TX 78249

Welcome:
Thomas M. Mengler, J.D. President, St. Mary’s University
The Honorable Ron Nirenberg, Mayor of San Antonio

MONDAY, APRIL 8, 2019

7:00 a.m. – 5:00 p.m.  EDI Registration—San Antonio Grand Foyer

7:30 a.m. – 9:00 a.m.  Breakfast, Welcome, and Keynote Address Session—San Antonio G, H & I
SPONSOR:
Texas A&M College of Engineering

Welcome:
Theresa Maldonado, The University of Texas at El Paso, EDI Co-Chair
Javier Kypuros, The University of Texas at Tyler, EDI Co-Chair
Stephanie Farrell, ASEE President

SPONSOR REMARKS:
M. Katherine Banks, Texas A&M University

Invent For The Planet: Global 48-hour Intensive Design Experience
Invent for the Planet is a 48-hour intensive design experience (IDE) that engages students at different universities around the world over a single weekend to solve high-impact, global problems. Texas A&M University’s College of Engineering recruited 600 students from 24 universities worldwide to participate in the event February 16-18. At each university, students formed teams and selected an industry-provided needs statement to address. The teams then designed, prototyped and pitched their solutions. The compressed timeline encourages entrepreneurial-minded students to practice leadership, followership and compromise in the design process. Advanced collaboration software platforms allowed students to collaborate with their peers worldwide. Award winning designs related to smart elderly care, aircraft structure, improving quality of life, advance health informatics, provide access to clean water, preventing loneliness, internet of things and advanced personalized learning. Although development of a product is unlikely during the 48 hours, the program has inspired 20% of participants at Texas A&M to continue development of their designs after the competition has ended.

Keynote Introduction:
Winston Erevelles, St. Mary’s University

Breakfast Keynote Speaker:
Adam L. Hamilton, P.E., President and CEO, Southwest Research Institute
Grounded against the stunning Sandia Mountains, the innovative spirit at The University of New Mexico is as endless as our bright blue skies.

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From renewable energy to agile manufacturing to water resources, UNM is tackling our world’s grand challenges, engineering a greater future for all of us.
9:00 a.m. – 10:30 a.m.  
**Session 1: Cybersecurity—San Antonio A-F**  
Organizers:  
JoAnn Browning, The University of Texas at San Antonio  
Winston Erevelles, St. Mary’s University  

This panel discussion focuses on cybersecurity challenges and opportunities in the participants’ fields and the educational need to address workforce development in engineering. The panel includes leaders of the largest publicly owned utility in the country, the National Security Agency, Air Force Cyber Command, and industry leaders of advanced technological services. Participants will learn more about cyber topics that are relevant to current researchers and future engineering graduates.  

Panelists:  
- David R. Savage, Executive Director, ManTech Innovative Security Solutions Division  
- Paula Gold-Williams, President & CEO, CPS Energy  
- Audrey M. Dale, Chief of Cybersecurity Operations, NSA/CSS (Central Security Service) Cryptologic Center Texas  

10:30 a.m. – 11:00 a.m.  
**Networking Break with Refreshments—San Antonio Foyer**  
SPONSOR:  
Virginia Commonwealth University Engineering  

11:00 a.m. – 12:00 p.m.  
**Session 2: The Future of AI, Machine Learning, and Data Analytics—San Antonio A-F**  
Organizers:  
Mohammad Alam, Texas A&M–Kingsville  
Marc Christensen, Southern Methodist University  

This panel encompasses the recent trends and advancements in artificial intelligence, machine learning, and data analytics. In particular, panelists will discuss how universities should prepare students for a future world dominated by AI and data science.  

Panelists:  
- Frederick R. Chang, Department of Computer Science, Southern Methodist University  
- Raymond J. Mooney, Department of Computer Science, The University of Texas at Austin  
- Angel Diaz, VP of Developed Technology, Open Source, & Advocacy, IBM  

12:00 p.m. – 12:15 p.m.  
**Cool Idea Intro and Presentations 1-3**  
Organizer:  
Larry Strauffer, University of Idaho  

12:15 p.m. – 12:30 p.m.  
**Transition to Lunch—San Antonio G, H, & I**
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BENJAMIN M. STATLER COLLEGE OF
ENGINEERING AND MINERAL RESOURCES
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1:30 p.m. – 2:00 p.m. Lunch and Keynote Session—San Antonio G, H, & I
SPONSOR: Dassault Systemes

Sponsor Remarks:
Xavier Fouger, Dassault Systemes

Corporate-inspired learning centers, an opportunity in the constant reshaping of engineering programs.

It now seems to be accepted that MOOCs have not kept their promise to disrupt mainstream university models. Micro-credentialing now appears as the next big thing that will shape lifelong learning, but more relevant in engineering education, is the questions posed by the emergence in several countries of learning centers that are inspired and sometimes operated by corporate and that, stronger than ever, contextualize learning in authentic problem solving. Through examples from different countries, the presentation discusses several dimensions of this model and how it articulates with existing university programs.

Keynote Introduction:
M. Katherine Banks, Texas A & M University

Lunch Keynote Speaker:
T.J. Wojnar, Jr., Vice President for Corporate Strategic Planning, ExxonMobil Corp.

2:00 P.M. - 2:15 P.M. Transition to the Data Town Hall

2:15 p.m. – 3:15 p.m. Data Town Hall: ASEE Data as the Gold Standard—San Antonio A-F
Organizers:
Gene Cilento, West Virginia University
Don Leo, University of Georgia

Engineering education will look quite different by 2030. What kinds of data do engineering schools need to ensure they meet their educational goals? At this interactive Town Hall forum, the Engineering Data Committee seeks input from deans representing the ASEE spectrum of schools to help the committee formulate and focus their efforts in the coming years. We also want to position ASEE to become the gold-standard source for engineering educational and research data.

3:15 p.m. – 4:00 p.m. Break (on your own)—San Antonio Foyer

4:00 p.m. – 4:45 p.m. Keynote Speaker: —San Antonio A-F
Joseph Helble, Provost, Dartmouth; Co-recipient, 2014 National Academy of Engineering Bernard M. Gordon Prize for Innovation in Engineeringand Technology Education

Keynote Introduction:
Theresa Maldonado, The University of Texas at El Paso, EDI Co-Chair
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With processes and products increasingly becoming more complex, industry must be equipped with the right intellectual and leadership capacities to tame and manage the challenging dynamics between complex theoretical foundations and practical applications. Knowledge and skill sets gained through BS and MS engineering programs may fall short in effectively addressing these challenges within a global market place that demands competitive engineering practices geared towards rapid technological innovation. PhD engineering education has a strong potential to effectively address these challenges but the typical educational paradigm remains entrenched in theoretical and esoteric research. This session focuses on the growing importance of preparing PhD engineers for careers in industry.

Panelists:
- Danny Olivas, The University of Texas at El Paso, Former NASA Astronaut and Special Advisor to the Dean, UTEP
- Steven W. Dellenback, Southwest Research Institute, Vice President, R &D
- Doug Phillips, Texas Instruments, Inc. Director, University Marketing & Research
- S.V. Sreenivasan, The University of Texas at Austin, Professor of Mechanical Engineering and Director of the NSF ERC NASCENT
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They are engineering degrees designed by the best, for the best.

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7:00 P.M. – 9:00 P.M.  Banquet and Keynote—San Antonio A-F  SPONSOR:  The University of Texas–Austin Cockrell School of Engineering  SPONSOR REMARKS:  Sharon Wood, UT-Austin  Banquet Speaker Introduction:  Gilda Barabino, City College of New York  Banquet Speaker:  Nadine Aubry, Dean of Engineering, Northeastern University; University Distinguished Professor of Mechanical and Industrial Engineering; Provost and Senior Vice President, Tufts University (effective July 1, 2019); Member and Councilor, National Academy of Engineering

TUESDAY, APRIL 9, 2019  
Sponsor display tables are available during refreshment and networking breaks.

7:30 A.M. – 5:00 P.M.  EDI Registration—San Antonio Foyer

7:30 A.M. – 8:30 A.M.  Breakfast and Sponsor Speaker Session—San Antonio G, H, & I  SPONSOR REMARKS:  University of Florida

Building support for the importance of immigration in the American hi-tech workforce

8:30 A.M. – 9:45 A.M.  Session 4: The Engineering Profession in the 21st Century—San Antonio A-F  Organizers:  Steve Starrett and Javier Kypuros in coordination with the ASEE Corporate Member Cynthia Murphy, Member of Corporate Member Council

The engineering profession continues to advance as engineers create solutions to increasingly complex problems and press the limits of innovation. This session will present the perspective of corporate leaders on the changing knowledge, skills, and abilities that future engineers will be required to have. Specific topics will include: how industry is changing the way engineers are trained; the growing importance of a systems approach to engineering; data analytics usage; and the growing importance of life-long learning skills to address new engineering positions of the future.

Panelists:
• P.J. Boardman, Director, Education Marketing, MathWorks
• Dora Smith, Senior Director of Global Academic Programs, Siemens PLM Software
• Andy Bell, Director of Academic Programs, National Instruments
• Tammy Stevens, Corporate Manager of University Relations and D&I Initiatives, Northrop Grumman Corporation
9:45 A.M. – 10:00 A.M.  
**Cool Ideas Presentations 8-11**  
Larry Stauffer, *University of Idaho*

10:00 A.M. – 10:30 A.M.  
**Networking Break with Refreshments—San Antonio G, H, & I**  
**SPONSOR:**  
University of Nebraska – Lincoln

10:30 A.M. – 11:30 A.M.  
**Session 5: ABET — From (a)-(k) to (1)-(7): Best Practices in Implementing Transition—San Antonio A-F**  
**Organizers:**  
Jeff Ray, *Western Carolina University*  
Winston Erevelles, *St. Mary’s University*  
Joseph Sussman, *ABET*  

The 2019-20 ABET EAC accreditation cycle will be the first under the new Criterion 3. Student Outcomes have changed from (a) – (k) to (1) – (7). This is the first major change in EAC student outcomes since the implementation of EC 2000, approved by the ABET Board of Directors in 1996. Many questions are anticipated in connection with program visits over the next few years, such as: What are the implications of the changes for my programs? How do my programs demonstrate compliance when we have been assessing (a) – (k) in previous years and review cycles? The session will begin with a mapping of the changes in Criterion 3 and open up to a discussion led by ABET volunteers for all attendees.

11:30 A.M. – 12:30 P.M.  
**EDC Business Meeting (Gregory Washington, EDC Chair)—San Antonio A-F**

12:30 P.M. – 12:45 P.M.  
**Transition to Lunch—San Antonio G, H, & I**

12:45 P.M. – 1:45 P.M.  
**Luncheon—San Antonio G, H, & I**  
**SPONSORS:**  
Northrop Grumman Corporation and Southern Methodist University

**SPONSOR REMARKS:**  
Sandra Evers-Manly, Vice President, Global Corporate Responsibility, Northrop Grumman Corporation

**Let’s Solve the Diversity, Equity, & Inclusion Problem in STEM**  
We all know it is essential to increase diversity in STEM, especially engineering pipelines, as well as a must to provide an inclusive and engaged culture that enables student success. As a company, Northrop Grumman Corporation is committed to being a champion for this cause. Sandra Evers-Manly, Vice President of Global Corporate Responsibility and President of the Northrop Grumman Foundation, will present on the company’s commitment to Diversity, Equity, and Inclusion, and their strong belief that this is critical to innovation. This important dialogue will also focus on the critical role Universities and Colleges must play in developing a pipeline of diverse, high performing students for the labor force of the future.
1:45 p.m. – 1:55 p.m.  
**ASEE Partner: Liaison EngineeringCAS, Remarks, Ron Hyman**

2:00 p.m. – 2:30 p.m.  
**Updates on Recent ASEE Diversity Workshops—San Antonio A-F**

Speakers:
- Gilda Barabino, Grove School of Engineering, CCNY
- Gregory Washington, Samuel School of Engineering, University of California-Irvine

2:30 p.m. – 4:00 p.m.  

Organizers:
- Don Leo, University of Georgia
- Emily Allen, California State University-Los Angeles
- Theresa Maldonado, The University of Texas-El Paso
- Gilda Barabino, CCNY

Keynote:
- Richard Tapia, NAE, University Distinguished Professor, Rice University

This interactive session will explore the dean’s position and role in encouraging diversity and inclusion in engineering programs. Richard Tapia, University Professor at Rice University, member of the National Academy of Engineering, and recipient of the National Medal of Science (among many awards) will provide personal and thought-provoking remarks on the importance of creating inclusive environments in science and engineering and on the role that leaders, such as deans, play in the mentoring and hiring of underrepresented faculty and students. Real-time polling will be used to promote engagement in the session. Following Dr. Tapia’s remarks, we will review polling data and use it as a basis for a robust discussion on the challenges and opportunities we face in promoting diversity and inclusion in the engineering profession.

4:00 p.m. – 4:15 p.m.  
**Cool Ideas Presentations 12-15**  
Larry Stauffer, University of Idaho

4:15 p.m. – 4:45 p.m.  
**Networking Break with Refreshments—San Antonio Foyer**  
**SPONSOR:**  
Oklahoma State University
**Session 7: High School Engineering: Are your programs ready for these students?—**

San Antonio A-F

**Organizers:** ASEE p-12 Engineering Education Committee

Steve Schreiner, Dean, School of Engineering, The College of New Jersey
Darryll Pines, Dean and Nariman Farvardin Professor of Aerospace Engineering, Clark School of Engineering, University of Maryland
Ron Welch, Dean of Engineering and Louis S. LeTellier Chair, The Citadel
Stacy Klein-Gardner, Adjunct Associate Professor of Biomedical Engineering, Vanderbilt University
Araceli Ortiz, Executive Director, LBJ Institute for STEM Education and Research, and Research Associate Professor of Engineering Education, Texas State University
P.J. Boardman, Director, Education Marketing, MathWorks Education Marketing, MathWorks

This session provides a discussion on the increasing trend of high school programs that are offering deeply engaging engineering experiences. An important driver of this trend is the inclusion of engineering topics and principles in individual state-level curricular standards and, at the national level, in the Next Generation Science Standards (NGSS). With the spread of these programs, engineering colleges are finding more students entering their first year curricula with significant exposure to basic engineering concepts. This panel explores the national perspective on the status of engineering curricular standards for P-12 and presents specific examples of existing and future high school engineering curricular initiatives. Finally, the panel and audience will discuss current and future effects of high school engineering programs on first-year engineering programs. As we, as a profession, succeed in bringing more engineering concepts into the P-12 levels, will high school curricular content overlap significantly with college-level introductory engineering courses? Moreover, what affect will such programs have on first-year culture and the university’s ability to challenge, engage, and interest students from these programs? The session will conclude with a Q&A discussion with the audience.

**Speakers:**

Tanner Huffman, Assistant Professor of Integrative STEM Education at The College of New Jersey and Director of the Advancing Excellence in P-12 Engineering Education (AEEE) Research Collaborative
Cheryl Farmer, Program Director & MSP Project Director, The University of Texas at Austin
Eugene Rutz, Academic Director, University of Cincinnati
Darryll Pines, Dean & Nariman Farvardin Professor of Aerospace Engineering, University of Maryland
Kevin Moore, Dean, Colorado School of Mines

**SPONSORS:**

Rice University and the University of Houston
WEDNESDAY, APRIL 10, 2019

8:00 A.M. DEPARTURE:  Tour: Southwest Research Institute  
6220 Culebra Rd, San Antonio, TX 78238

Founded in 1947, Southwest Research Institute is one of the oldest independent nonprofit organizations in the United States, providing innovative science, technology, and engineering services to government and commercial clients around the world. Its technical divisions include: Applied Physics, Space Science & Engineering, Mechanical Engineering, Intelligent Systems, Chemistry & Chemical Engineering, Fuels & Lubricants Research, Applied Power, Defense & Intelligence Solutions, and Powertrain Engineering.

8:00 A.M. DEPARTURE:  Tour: San Antonio Water System (SAWS) Desalination Plant  
4588 Hardy Rd, Elmendorf, TX 78112

San Antonio’s desalination plant pumps brackish water from nearly 1,500 feet underground in the Wilcox Aquifer and treats it using reverse osmosis to produce 12 million gallons of drinking water each day. This is enough to supply up to 53,000 households. The facility includes 12 production wells and two injection wells, in addition to a water-testing laboratory and treatment processing area.

8:00 A.M. DEPARTURE:  Tour: Tour of Solar Farm & Solar Panel Production Facility  
2361 Blue Wing Rd, San Antonio, TX 78214

As the sun rises over beautiful San Antonio, come see how the City and CPS Energy in partnership with OCI Solar Power are putting those rays to work for them. You will have the opportunity to tour Alamo 1, the first stage of a 650 MWdc solar photovoltaic project that delivers clean, renewable energy to thousands of households. After setting your sights on more than 167,000 solar modules in the field, check out just how panels are made with a tour of the Mission Solar Energy production facility. Owned by OCI Solar Power, Mission Solar Energy designs, engineers, and assembles high quality solar modules under the strictest quality standards.
IDENTIFY A PROBLEM. DEVELOP A SOLUTION. CHANGE THE WORLD.

Introducing Texas Inventionworks — a one-of-a-kind program designed to inspire engineering students to reimagine their educational experience. Launched in 2019 and headquartered in UT’s new 23,000-square-foot National Instruments Student Project Center, Texas Inventionworks brings hands-on projects, prototype design, entrepreneurial coaching and industry collaboration all under one roof, allowing students to transform their ideas into realities.

Learn more at inventionworks.engr.utexas.edu
WEDNESDAY, APRIL 10, 2019: ENGINEERING DEANS GENDER EQUITY WORKSHOP

Separate Event with $0 Registration required when registering for EDI. All deans are encouraged to attend. More information at https://edge.asee.org.

The Engineering Deans Gender Equity (EDGE) Initiative a 3-year program, funded through a 2018 National Science Foundation ADVANCE Adaptation award, seeks to reduce barriers impeding the participation and advancement of women faculty in engineering higher education.

8:00 A.M. - 8:15 A.M.  Welcome & Introduction  Yannis Yortsos
8:16 A.M. - 9:45 A.M.  Equity Benchmark Tool (1.5 hrs)  Virginia Valian
9:45 A.M. - 10:00 A.M.  BREAK
10:00 A.M. - 10:45 A.M.  Part 1: TECAID Project Overview  Aisha Lawrey & Gretal Leibnitz & Resources (1 hr.)
10:46 A.M. - 11:00 A.M.  BREAK
11:00 A.M. - 12:00 P.M.  TECAID Model Application & StratEGIC Toolkit Introduction
12:00 P.M. - 1:00 P.M.  Working Lunch—Diane Magrane (ELATE)
1:00 P.M. - 1:45 P.M.  Part 2: Diane Magrane (ELATE)
1:45 P.M. - 2:00 P.M.  BREAK
2:00 P.M. - 3:30 P.M.  Dean’s Panel (1.5 hrs)  Stephanie Adams, Gilda Barabino & Theresa Maldonado
3:30 P.M. - 3:45 P.M.  BREAK
3:45 P.M. - 4:45 P.M.  Mid-Career Advancement (1 hr.)  Christine Grant
4:45 P.M. - 5:00 P.M.  Wrap-up  – Gretal Leibnitz
5:00 P.M.  Adjourn
Welcome Our New U.S. Steel Dean of Engineering –
James R. Martin II

James R. Martin II, formerly the Bob Benmosche Professor and Chair of the Glenn Department of Civil Engineering at Clemson University, joins the University of Pittsburgh as the U.S. Steel Dean of Engineering, the tenth dean in the history of the School. He succeeds Gerald D. Holder, who served as dean since 1996 and will return to the faculty in fall 2019.

During his tenure as department chair, Martin led the development of new curricula, established new degree programs, and forged new transdisciplinary research collaborations. He secured two institutional-level National Science Foundation grants to implement innovations in engineering programs at Clemson and 60 other engineering schools across the nation. He also developed global university partnerships, including a dual PhD civil engineering degree program with top-ranked Tongji University in China.

Martin forged innovative university-corporate partnerships, serving as founding director of the Risk Engineering and Systems Analytics Institute, developed in collaboration with a global insurance firm as founding sponsor. He also led the Strategic Planning Committee for Clemson’s College of Engineering and Science.

Prior to joining Clemson in 2013, Martin spent over 20 years at Virginia Tech on the civil engineering faculty and served five years as director of the Disaster Risk Management Institute.

Internationally recognized for his research on earthquakes, his work has contributed to improved earthquake building code standards in the central and eastern United States. He is regularly called upon to serve on field teams after earthquakes strike and was the team leader for the NSF-sponsored study of the 2011 earthquake in Virginia and Washington, D.C., as well as similar studies in Turkey and Japan. Martin has also served as an international engineering consultant on major infrastructure projects for more than 75 firms and government agencies.

He earned a B.S. in civil engineering from The Citadel, and M.S. and PhD in civil engineering from Virginia Tech. Martin has received numerous national, state and university awards for research, teaching, scholarship, and service, including the American Society of Civil Engineer’s Norman Medal, the highest honor for published work in his field. He was inducted into the Civil Engineering Department’s Academy of Distinguished Alumni at Virginia Tech in 2015.
**ON-SITE REGISTRATION FEES**

<table>
<thead>
<tr>
<th>Registration Type</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Dean</td>
<td>$535</td>
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<tr>
<td>Spouse/Guest</td>
<td>$275</td>
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<tr>
<td>Unregistered Guest Sunday Reception at the University of Texas–San Antonio</td>
<td>$40</td>
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<tr>
<td>Unregistered Guest Monday Reception &amp; Banquet</td>
<td>$100</td>
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<tr>
<td>Unregistered Guest Tuesday Reception</td>
<td>$40</td>
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Spouse/Guest fee includes the following activities:

- **Sunday**
  - Opening Reception at University of Texas–San Antonio

- **Monday**
  - Breakfast
  - Lunch and Keynote Reception & Banquet

- **Tuesday**
  - Breakfast and Keynote
  - Lunch
  - Closing Reception

**EDI Registration Desk Hours – San Antonio Grand Foyer**

<table>
<thead>
<tr>
<th>Date</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Sunday, April 7th</td>
<td>11:00 a.m. – 3:00 p.m.</td>
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<tr>
<td>Monday, April 8th</td>
<td>7:00 a.m. – 5:00 p.m.</td>
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<tr>
<td>Tuesday, April 9th</td>
<td>7:30 a.m. – 5:00 p.m.</td>
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**Americans with Disabilities Act (ADA)**

Registrants with special needs who participate in our conference will be accommodated to the fullest extent possible. If you need special arrangements, please advise us at the time you register.

**Attire**

Business attire is appropriate for the Engineering Deans Institute.
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RESEARCH PROJECT HIGHLIGHTS
Pictured from top to bottom

The Precise Advanced Technologies and Health Systems for Underserved Populations (PATHS-UP)
A NSF Engineering Research Center

Department of Aerospace Engineering and Boeing Research and Technology
A NASA Aeronautics’ University Leadership Initiative (ULI)

Center for Research Excellence on Dynamically Deformed Solids (CREDDS)
A National Nuclear Security Administration (NNSA) center

Saving Lives through Transformative Health Technologies

Shape-Shifting Supersonic Aircraft to Reduce Sonic Boom

Training New Engineers to Analyze Aging Weapons

engineering.tamu.edu
The contributions of the College of Engineering have been an integral component in helping The University of Texas at El Paso become a top tier research institution*. Since it opened in 1914 as the Texas State School of Mines and Metallurgy, UTEP’s College of Engineering has emerged as a national leader in graduating Hispanic engineers. Their student-research experiences befit our top tier research status, giving these highly trained graduates the experience that makes them heavily recruited by the industry’s leading companies.

Dr. Theresa A. Maldonado, dean of the College of Engineering, leads more than 120 faculty and staff in seven academic departments and more than 15 state-of-the-art laboratories and research centers.

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[utep.edu/engineering](http://utep.edu/engineering)

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* The University of Texas at El Paso holds an R1 designation (top tier doctoral university with very high research activity) in the Carnegie Classification of Institutions of Higher Education.