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ONLINE VERSION
www.asee.org/icp/CoNECD
Welcome

WELCOME TO THE SECOND ANNUAL
COLLABORATIVE NETWORK FOR ENGINEERING AND COMPUTING DIVERSITY—CoNECD!

CoNECD is the only conference with a vision of providing a forum for exploring current research and practices to enhance diversity and inclusion of all underrepresented populations in the engineering and computing professions. CoNECD includes women, individuals of diverse racial, ethnic, and socio-economic backgrounds as well as varied gender identities and expressions, the LGBTQ+ community, people with disabilities, veterans, and first-generation college students. There are many conferences focusing on various groups that are underrepresented in engineering. CoNECD is the only conference that is working to bring research and practice on increasing the participation of these marginalized groups together in one forum.

CoNECD is a collaborative effort of the National Association of Multicultural Program Advocates (NAMEPA), the Women in Engineering Proactive Network (WEPAN), and the Minorities (MIND) and Women in Engineering (WIED) Divisions of the American Society For Engineering Education (ASEE). Recognizing that “none of us is as strong as all of us,” we believe that numerous activities that have been successful in broadening participation of targeted groups in the precollege, university, and professional workforce environments can be successfully applied to other underrepresented populations. We need to share the research that shows in creating equitable, inclusive, and diverse environments.

Moreover, we need to share practices. You will note that we have accepted both peer-reviewed papers and peer-reviewed presentations. We recognize that both research and practice are important to our community and that practitioners seldom have a forum for sharing what they are doing and what they have learned. CoNECD values all efforts to broaden participation in engineering and computing, recognizing that both research and implementation are vital to achieving our goals.

It is our belief that CoNECD will become a primary forum for sharing thoughts and ideas on diversity in engineering and computing. We have an incredible range of topics being presented, incredible keynote speakers who will both educate and inspire you, and conference attendees who want to network and learn from each other.

WE HOPE YOU ENJOY BEING CONECD!

THE CoNECD ORGANIZING COMMITTEE

Darryl Dickerson, President,
National Association of Multicultural Engineering Program Advocates

Catherine Jay Didion, Executive Director,
Women in Engineering ProActive Network

Beena Sukumaran, Past Chair,
Women in Engineering Division, ASEE

Bevlee Watford, Past President,
American Society for Engineering Education

Rochelle Williams, Chair,
Minorities in Engineering Division, ASEE
Darryl Dickerson is associate director of the Minority Engineering Program (MEP) at Purdue University. He began working full-time for MEP in 2012. As associate director since 2014, he has focused on programming geared towards increasing the number of underrepresented minorities matriculating in engineering. Darryl also serves as chief scientific officer of BioRegeneration Technologies and president of Adapt-IF Technologies. He has extensive research experience in biomaterials development, orthopedic tissue biomechanics, and tissue engineering. Dickerson graduated summa cum laude from Tulane University with a B.S.E. in Biomedical Engineering and went on to earn a Ph.D. in May 2009 from the Weldon School of Biomedical Engineering at Purdue University.

Research for his doctoral dissertation, “Bio-template Mediated Regeneration of Orthopaedic Interfaces,” was carried out in the Human Injury and Regenerative Research Technologies laboratory under the direction of Eric Nauman. The two subsequently founded BioRegeneration Technologies to translate the benchtop work performed during Dickerson’s graduate studies to clinical practice.

While a graduate student, Dickerson gained significant management experience as a member of the Board of Directors (2004 – 2009) of the National Society of Black Engineers (NSBE), a nonprofit organization with over 30,000 members worldwide dedicated to increasing the number of African-American students pursuing and obtaining engineering degrees. His work with NSBE culminated in his service as president, chairman of the board, and chief executive officer in 2007 – 2008. During his tenure, he oversaw a full-time staff of 30 at the world headquarters in Alexandria, Va., where he managed a budget of $11 million, implemented a new programmatically based strategic direction, and forged new partnerships with corporations, including Battelle and Microsoft.

In 2011, Dickerson became president of Adapt-IF Technologies, a nonprofit organization founded by Theresa Gordon and Eric Nauman dedicated to creating and delivering custom adaptive technologies to meet the individual needs of people with disabilities.
CATHERINE JAY DIDION
Executive Director WEPAN

Catherine “Kitty” Didion is the executive director of WEPAN (Women in Engineering Pro-Active Network). From 2016 to 2018, Didion was a vice president at Olin College of Engineering with overall responsibility for the college’s advancement efforts, including external engagement strategies. Didion served from 2006 to 2016 as the director of the Committee on Women in Science, Engineering, and Medicine at the National Academies of Sciences, Engineering, and Medicine (NASEM) and as a senior program officer at the National Academy of Engineering (NAE). Didion was the lead staff officer for over a dozen publications, including *Gender Differences at Critical Transitions in the Careers of Science, Engineering and Mathematics Faculty; Career Choices of Female Engineers*; and *Surmounting the Barriers: Ethnic Diversity in Engineering Education*. Before joining the National Academies, Didion was the executive director of the Association for Women in Science (AWIS). During her tenure AWIS was awarded the U.S. Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. Didion has extensive experience on Capitol Hill in Washington, D.C., including a staff position on the Senate Commerce, Science, and Transportation Committee. In 2012, Didion was named one of “100 Women Leaders in Science, Technology, Engineering and Mathematics (STEM).” Her honors include a 2014 National Academy of Engineering Staff Award; American Association for the Advancement of Science (AAAS) Fellow; AWIS Fellow; Drucker Foundation Fellow; Texaco Management Institute Fellow; Secretary of the U.S. Air Force Inaugural Environmental Civic Leader; and Certificate of Commendation and Distinguished Service, Embassy of the United States of America, Riyadh, Saudi Arabia. Didion completed her undergraduate degree at Mount Holyoke College and graduate work at the University of Virginia.

BEENA SUKUMARAN
Past Chair Women in Engineering Division, ASEE

Beena Sukumaran, a professor of civil and environmental engineering, has been on the faculty at Rowan University since 1998 and currently serves as President’s Fellow for Diversity and Inclusion. In this capacity, she is taking a comprehensive look at the university’s efforts to provide an inclusive environment for students, staff, and faculty that ensures equity. She served as chair and then head of the department of civil and environmental engineering from 2010 to 2017. She received an NSF Revolutionizing Engineering and Computer Science Department (RED) grant titled “Revolutionizing Engineering Diversity” (RevED) to examine strategies to increase the representation of women, underserved groups, and ethnic/racial minorities in Rowan University’s civil and environmental engineering department while at the same time enhancing inclusion through curriculum design, teaching, and learning. She also has been involved in various outreach activities to recruit more ethnic/racial minorities, women, and underserved groups into engineering. Sukumaran is the recipient of the 2011 New Jersey ASCE Educator of the Year award, the 2013 Distinguished Engineering Award from the New Jersey Alliance for Action, and the 2016 New Jersey Department of Transportation Research Implementation Award. She currently serves as past chair of ASEE’s Women in Engineering Division.
Organizing Committee

BEVLEE WATFORD
Immediate Past President, American Society for Engineering Education

Bevlee A. Watford is a professor of engineering education in the college of engineering at Virginia Tech, where she received her B.S. in mining engineering and her M.S. and Ph.D. in industrial engineering and operations research. Since 1992, she has been the founding director of the Center for the Enhancement of Engineering Diversity (CEED), securing more that $12 million in funding and support for CEED and other undergraduate initiatives. Her research activities have focused on the recruitment and retention of students in engineering, with a particular emphasis on underrepresented students. CEED has implemented nationally recognized programs that have enhanced the success of all students. These include freshmen peer mentoring, a summer bridge for incoming freshmen, and residential living-learning communities that house nearly 600 freshman engineering students.

Watford has also served since 1997 as associate dean for academic affairs in the College of Engineering, responsible for all undergraduate activities from recruiting to commencement. In 2010 and 2011, she served as interim head of the Engineering Education Department. From 2005 to 2007, she served as a program manager in the Division of Undergraduate Education at the National Science Foundation, returning in the years 2013 to 2015 to serve as the program director for broadening participation in the Directorate of Engineering.

Watford was the 2004-2005 president of the Women in Engineering ProActive Network (WEPAN) and has served on the Board of Directors of the National Association of Minority Engineering Program Administrators (NAMEPA), now the National Association of Multicultural Engineering Program Advocates. An active member of the American Society for Engineering Education since 1986, Watford is ASEE’s immediate past president (2018-2019).

ROCHELLE WILLIAMS
Chair, Minorities in Engineering Division, ASEE

Rochelle L. Williams is the project director and co-PI of the ADVANCE Resource Coordination (ARC) Network with the Association for Women in Science (AWIS). The ARC Network seeks to bridge the gap between researchers and practitioners dedicated to achieving gender equity for faculty in higher education science, technology, engineering, and mathematics (STEM) disciplines.

Before joining AWIS, Williams served as a research scientist in the Office for Academic Affairs at Prairie View A&M University. In this role, she worked directly with the provost on research projects centered on the advancement of women faculty in STEM and the continuous quality improvement of student learning. From 2011 to 2016, Williams was the director of programs and research at ABET headquarters in Baltimore, Md., where she was responsible for leading the creation and facilitation of educational offerings for science and engineering faculty around the world. Because of her extensive work in program assessment and evaluation, she has served as an invited speaker at several international conferences, including the World Engineering Education Forum in Dubai, UAE, and assessment workshops in France and Colombia. In 2016, Williams was selected to be a Christine Mirzayan Science and Technology Policy Fellow with the National Academies of Science, Engineering, and Medicine in Washington, D.C. As a fellow, she worked with the Committee on Women in Science, Engineering, and Medicine to drive policy that mitigates the sexual harassment of female faculty in STEM departments in academia.

Williams received her bachelor of science degree in physics from Spelman College and both her master of engineering in mechanical engineering and Ph.D. in science and mathematics education from Southern University and A&M College.
The CoNECD Organizing Committee wants to acknowledge these individuals for their invaluable behind the scenes assistance. Their hard work throughout the planning stages helped ensure that the 2019 CoNECD Conference would be an amazing event!

**KARIS BOYD-SINKLER** is a doctoral candidate in engineering education and a master’s student in industrial and systems engineering at Virginia Tech. She also serves as support staff for the Center for the Enhancement of Engineering Diversity, where she is involved in outreach and the recruitment and retention of engineering students. Boyd-Sinkler researches and supports students from traditionally underrepresented and underserved backgrounds. Prior to coming to Virginia Tech, Karis was the associate director of student affairs in the Center for Diversity in Engineering at the University of Virginia.

**LORA LEIGH CHRYSTAL** has been committed to increasing the representation of women in the Science, Technology, Engineering and Math (STEM) workforce for the past 19 years at Iowa State University. As director of the Program for Women in Science and Engineering, Chrystal oversees all outreach, recruitment, and retention programs serving over 12,000 students in the state of Iowa each year. She has been a member of the Women in Engineering ProActive Network (WEPAN) for almost 20 years and currently serves on the Board of Directors.

**DARRYL N. WILLIAMS** is senior vice president of science and education at the Franklin Institute. A former rotating National Science Foundation (NSF) program director, Williams supported the advancement of K-12 engineering education research. He worked across various NSF programs while leading the Innovative Technology Experiences for Students and Teachers (ITEST) program. Before his work at NSF, Williams was the executive director of iPRAXIS, a Philadelphia-based nonprofit, where he developed strategies for deploying scientists and engineers (or Scienteers) into Philadelphia classrooms at the K-12 level. Williams later became the dean of undergraduate education at Tufts University’s School of Engineering and director of the Tufts Center for STEM Diversity. In addition to his educational efforts, Williams is an accomplished researcher in nanobiotechnology. He followed his love for science and innovation to study chemistry and engineering at Hampton University, earning his B.S. in chemical engineering in 1999 and going on to earn a Ph.D. in chemical engineering in 2004 from the University of Maryland, College Park. As a member of ASEE, Darryl has served as a program chair and division chair for the Minorities in Engineering Division (MIND).
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- Biological Systems Engineering
- Biomedical Engineering and Mechanics
- Chemical Engineering
- Civil and Environmental Engineering
- Computer Science
- Electrical and Computer Engineering
- Engineering Education
- Industrial and Systems Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Mining and Minerals Engineering
- Myers-Lawson School of Construction

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The CoNECD gratefully acknowledge the support of our sponsors. Thank you for your commitment to fostering diversity and inclusion in engineering education.
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2020 CoNECD CONFERENCE, CRYSTAL CITY, VA. APRIL 19-22

ABSTRACT SUBMISSIONS FOR 2020 MEETING WILL OPEN IN SEPTEMBER OF 2019
The CoNECD gratefully acknowledge the support of our contributor. Thank you for your commitment to fostering diversity and inclusion in engineering education.
Why NAMEPA?

To face engineering challenges we need a diverse engineering workforce that reflects our society. With our strong institutional connection, NAMEPA is uniquely positioned to support the matriculation of extraordinary engineers and create a community of diverse STEM professionals through the fulfillment of our strategic objectives.

Institutional and Corporate Partners

Colorado School of Mines, Georgia Institute of Technology,
North Carolina State University,
The Pennsylvania State University, Purdue University,
The Ohio State University, University of California – Irvine,
University of Dayton, University of Missouri,
University of Pittsburgh, Virginia Tech, Chevron

STRATEGIC OBJECTIVES

Support Students
Expand outreach, recruitment, and retention program development, deployment, and implementation through templates and standards

Share Evidence-Based Practices
Develop an ecosystem for partnerships and replication of successful practices that increase diversity, equity, and inclusion in engineering

Demonstrate Impact with Data
Provide evidence-based information on diversity, equity, and inclusion in engineering in higher education

Advance Professionally
Provide professional development for diversity-focused program administrators and professionals in diversity, equity, and inclusion in engineering

Cultivate Support Network
Build a strong network and community among professionals with common interests in underrepresented minority engineering student success

Join the NAMEPA Network! Contact us for more information.

www.namepa.org
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MONDAY, APRIL 15, 2019
9:15 A.M. – 10:15 A.M.
GRAND BALLROOM - MARRIOTT CRYSTAL GATEWAY

ANN GULLEY
Ann Gulley is co-founder of The Logan Project at Auburn University–Montgomery, where she is a doctoral student in educational psychology. Her primary research focus is the development of tools to promote inclusive learning environments. Gulley places a high value on the experiences that students across the spectrum of ability bring to the table. She is committed to both a User Centered Design and Universal Design for Learning approach to the development of new educational methods and technologies. She has been an invited speaker at the National Science Foundation and his research focus is the development of technologies from a User Centered Design perspective that will increase educational opportunities for students with disabilities.

TUESDAY, APRIL 16, 2019
9:15 A.M. – 10:15 A.M.
GRAND BALLROOM - MARRIOTT CRYSTAL GATEWAY

CYNTHIA MURPHY-ORTega
Cynthia Murphy-Ortega is currently Manager of University Partnerships and Association Relations of Chevron Corporation. Her organization manages Chevron’s relationships with universities and professional societies and institutes throughout the world. Cynthia joined Chevron in 1991 as an engineer with the Richmond Refinery in the San Francisco Bay Area. She held various engineering, maintenance, operations, financial, business planning, and process safety management positions within the refinery.

Cynthia then went on to work in the technology arena with the Chevron Energy Technology Company in 1998. She developed and managed Chevron’s technical competency development programs for new hires in refining and exploration and production roles. She also worked in the Process Planning Group and performed process modeling on large-scale projects. In her role as Organizational Capability Manager with the Process, Analytical, and Catalysis Department, she supported technical competency management, staffing/recruitment, new hire and competency development, and business planning.

Cynthia participates on various boards, including the Dean’s Advisory Committee, the Chemical Engineering Advisory Committee, the Mechanical and Aerospace Engineering Advisory Committee, the Leadership in Engineering Advancement, Diversity, and Retention Advisory Committee (LEADR), and the Avenue E Community College Transfer Program Advisory Board at the University of California—Davis; the Broadening Opportunity through Leadership and Diversity Advisory Committee (BOLD) at the University of Colorado—Boulder; the Viterbi Center for Engineering Diversity Industry Advisory Board at the University of Southern California; the Industry Advisory Council for Minority Education at the Massachusetts Institute of Technology; the President’s Council on Diversity, Inclusion, and Access at Colorado School of Mines; the Women’s Engineering Program Advisory Board at Cal Poly San Luis Obispo; the Corporate Membership Council of the American Society of Engineering Education (ASEE); the Inclusion Committee of the National Association of Colleges and Employers (NACE); the Postsecondary Pathways Innovation Lab Co-Chair of STEMConnector; the National Council on STEM and Technology for INROADS; the Women’s Initiatives Committee and the Minority Affairs Committee for the American Institute of Chemical Engineers (AIChE); and the Petroleum Geosciences Advisory Board and Petroleum Engineering Advisory Board.
Board at Chulalongkorn University/Thailand. Cynthia holds a Bachelor of Science degree in chemical engineering from the University of California–Davis.

**LUNCH KEYNOTE SPEAKER**
**TUESDAY, APRIL 16, 2019**
**12:15 P.M. – 1:30 P.M.**
**GRAND BALLROOM - MARRIOTT CRYSTAL GATEWAY**

**SANDRA BEGAY**
Sandra Begay is a principal member of the technical staff at Sandia National Laboratories, where she leads efforts to assist American Indian and Alaska Native tribes with their renewable energy developments. She also manages and supervises Sandia’s Indian Energy Internship Program for the Department of Energy’s Office of Indian Energy.

After receiving a bachelor of science degree in civil engineering from the University of New Mexico, Begay worked at Lawrence Livermore National Laboratories before enrolling at Stanford University, where she earned a master of science degree in structural engineering. She has been with Sandia National Laboratories for 26 years.

A former University of New Mexico Regent/Trustee, Begay continues to serve UNM through board service to STC.UNM, the Alumni Association, and as Civil Engineering Advisor.

Begay is a recent recipient of the American Indian Science and Engineering Society’s Lifetime Achievement Award; the University of New Mexico’s 2007 Zia Alumnus Award; the 2005 UNM School of Engineering Distinguished Alumnus Award; and the Stanford University 2000 Multicultural Alumni of the Year Award.

She was also selected as a recipient of the Governor’s Award for Outstanding Women from the New Mexico Commission on the Status of Women.

Begay is recognized in a book profiling women engineers, *Changing Our World: True Stories of Women Engineers*. A chapter entitled “Women in Power” describes her efforts to provide electricity through solar panels and other alternative energy solutions to hundreds of remote tribal members on the Navajo Reservation.

**WEDNESDAY, APRIL 17, 2019**
**9:15 A.M. – 10:15 A.M.**
**GRAND BALLROOM - MARRIOTT CRYSTAL GATEWAY**

**CLAUDE M. STEELE**
Claude M. Steele, a social psychologist, is a professor of psychology at Stanford University. He is best known for his work on the theory of stereotype threat, a process through which people from different groups, being threatened by different stereotypes, can have quite different experiences in the same situation. He has conducted pioneering research on the academic aspirations and achievements of minority students, with a focus on self-evaluation and self-identification. His 2010 book, *Whistling Vivaldi and Other Clues to How Stereotypes Affect Us*, summarizes years of research on stereotype threat and the underperformance of minority students in higher education.

Steele has served in several major academic leadership positions as executive vice chancellor and provost at the University of California–Berkeley, dean of the School of Education at Stanford, and provost of Columbia University.

Steele holds a B.A. in psychology from Hiram College and a M.A. in social psychology and a Ph.D. in social psychology and statistical psychology from Ohio State University. He has served as president of the Society for Personality and Social Psychology and of the Western Psychological Association, and as a member of the Board of Directors of the American Psychological Society. He is a member of the American Academy of Arts and Sciences, the National Academy of Sciences, the National Academy of Education, and the American Philosophical Society.

His talk will address the why, what, and how of diverse learning communities: why they are important, a working hypothesis about what is critical to their success, and what research reveals about how to achieve that success. The talk’s practical aim is to identify features of diverse learning communities—schools, universities and academic disciplines—that while good for all students, are especially helpful for minority students generally, and for women in STEM fields. The talk will also explore the psychological significance of community and its role in learning.
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<td>NAMEPA &amp; WEPAN EXECUTIVE COMMITTEE BUSINESS MEETINGS</td>
<td>PRE CONFERENCE WORKSHOPS 9:00 AM TO 5:45 PM</td>
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<td>OPENING RECEPTION 6:00 PM TO 7:30 PM</td>
<td>KEYNOTE ANN GULLEY &amp; LOGAN PICKETT 9:15 AM TO 10:15 AM</td>
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<td>TRACK SESSION I 10:30 AM - 11:10 AM</td>
<td>TRACK SESSION II 11:20 AM - 12:00 PM</td>
<td>TRACK SESSION VI 4:35 PM - 5:15 PM</td>
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<td>LUNCH &amp; HI 5 SESSIONS 12:00 PM TO 1:30 PM</td>
<td>TRACK SESSION III 1:30 PM - 2:10 PM</td>
<td>NAMEPA BUSINESS MEETING 5:30 PM - 6:30 PM</td>
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<tr>
<td>TRACK SESSION IV 2:20 PM - 3:00 PM</td>
<td>NETWORKING &amp; EXHIBITS BREAK 3:00 PM - 3:30 PM</td>
<td>WEPAN TOWN HALL &amp; AWARDS CEREMONY 5:30 PM - 7:30 PM</td>
</tr>
<tr>
<td>NETWORKING &amp; EXHIBITS BREAK 10:15 AM - 10:30 AM</td>
<td>TRACK SESSION VII 3:45 PM - 4:25 PM</td>
<td>NAMEPA REGIONAL MEETING 8:00 PM - 9:30 PM</td>
</tr>
<tr>
<td>REGISTRATION OPEN 8:00 AM - 7:00 PM</td>
<td>BREAKFAST 8:00 AM - 9:00 AM</td>
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</tr>
</tbody>
</table>
# Conference-at-a-Glance

## Tuesday, April 16

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Open</td>
<td>8:00 AM - 5:00 PM</td>
</tr>
<tr>
<td>Breakfast</td>
<td>8:00 AM - 9:00 AM</td>
</tr>
<tr>
<td>Keynote Cynthia Murphy-Ortega</td>
<td>9:15 AM TO 10:15 AM</td>
</tr>
<tr>
<td>Networking &amp; Exhibits Break</td>
<td>10:15 AM - 10:30 AM</td>
</tr>
<tr>
<td>Track Session VII</td>
<td>10:30 AM - 11:10 AM</td>
</tr>
<tr>
<td>Track Session VIII</td>
<td>11:20 AM - NOON</td>
</tr>
<tr>
<td>Lunch - Sandra K. Begay</td>
<td>12:15 PM TO 1:30 PM</td>
</tr>
<tr>
<td>Track Session IX</td>
<td>1:30 PM - 2:10 PM</td>
</tr>
<tr>
<td>Networking &amp; Exhibits Break</td>
<td>3:00 PM - 3:30 PM</td>
</tr>
<tr>
<td>Track Session X</td>
<td>3:45 PM - 4:25 PM</td>
</tr>
<tr>
<td>Track Session XII</td>
<td>4:35 PM - 5:15 PM</td>
</tr>
</tbody>
</table>

## Wednesday, April 17

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Open</td>
<td>8:00 AM - NOON</td>
</tr>
<tr>
<td>Breakfast</td>
<td>8:00 AM - 9:00 AM</td>
</tr>
<tr>
<td>Keynote Dr. Claude Steele</td>
<td>9:15 AM TO 10:15 AM</td>
</tr>
<tr>
<td>Networking &amp; Exhibits Break</td>
<td>10:15 AM - 10:30 AM</td>
</tr>
<tr>
<td>Track Session XII</td>
<td>10:30 AM - 11:15 AM</td>
</tr>
<tr>
<td>Track Session XIII</td>
<td>11:20 AM - NOON</td>
</tr>
<tr>
<td>Closing Session</td>
<td>12:15 PM TO 1:00 PM</td>
</tr>
<tr>
<td>CoNECD Awards Banquet and Celebration</td>
<td>6:00 PM TO 11:30 PM</td>
</tr>
</tbody>
</table>
In addition to several restaurants, Crystal City Shops—which run along Crystal Drive between 12th and 23rd streets—offer a wide variety of carry-out markets, sandwich shops, and other dining options.

**AMERICAN**
- **BOB AND EDITH'S DINER** 703-920-2700
  539 S 23rd St
- **CINNABAR** 703-418-1234
  2799 Jefferson Davis Hwy
- **CLARK STREET GRILL** 703-418-1577
  2711 Jefferson Davis Hwy
- **LEGAL SEA FOODS** 703-415-1200
  2301 Jefferson Davis Hwy
- **MCCORMICK & SCHMICK'S** 703-413-6400
  2010 Crystal Dr
- **MORTON'S STEAKHOUSE** 703-418-1444
  1750 Crystal Dr
- **POTOMAC BAR AND GRILLE** 703-418-1314
  2301 Jefferson Davis Hwy
- **TED'S MONTANA GRILL** 703-416-8337
  2200 Crystal Dr

**BURGERS**
- **GOOD STUFF EATERY** 703-415-4663
  2100 Crystal Dr

**CARRY OUT/GRAB-AND-GO**
- **CAFE 59** 703-418-1313
  2341 Jefferson Davis Hwy
- **CEDAR DELI** 703-418-0294
  2341 Jefferson Davis Hwy
- **CENTURY CAFE** 703-418-2888
  2450 Crystal Dr
- **MANNA CAFE** 703-418-0341
  2345 Crystal Dr
- **NEW YORKER CARRY OUT** 703-418-0120
  2461 S Clark St
- **PLAZA GOURMET** 703-414-3661
  2201 S Clark St

**CHINESE**
- **YOUNG CHOW** 703-892-2566
  420 23rd St S

**ETHIOPIAN**
- **ENJERA RESTAURANT** 703-271-6040
  549 23rd St S

**GREEK**
- **ATHENA PALLAS** 703-521-3870
  556 22rd St S

**INDIAN**
- **KOHINOOR DHABA INC.** 703-778-5005
  2800, 4010, S Eads St
- **TAJ OF INDIA** 703-920-1100
  509 23rd St S

**ITALIAN**
- **FREDERICO RISTORANTE ITALIANO** 703-486-0519
  519 23rd St.
- **LA BETTOLA** 703-271-0032
  558 23rd St S
- **KORA** 703-431-7090
  2250 B Crystal Dr

**JAPANESE**
- **CRISTAL BONSAI SUSHI** 703-553-7723
  1680 Crystal Square Arcade
- **SUSHI GARDEN** 703-413-5477
  1680 Crystal Square Arcade

**KOREAN**
- **RICE BAR** 703-501-0130
  1235 S Clark St

**MEXICAN/CENTRAL AMERICAN**
- **LOS TIOS GRILL** 703-647-9702
  515 23rd St, S
- **SAN ANTONIO BAR AND GRILL** 703-415-0126
  1664-A Crystal Square Arcade

**PIZZA**
- **BOZZELLI'S ITALIAN DELI** 571-970-4570
  2600 Crystal Dr
- **PAISANO'S PIZZA** 703-416-7000
  3650 S Glebe Rd
- **PIZZA AUTENTICA** 703-415-7615
  2450 Crystal Dr

**SPANISH/TAPAS**
- **JALEO BY JOSÉ ANDRÉS** 703-413-8181
  2250 Crystal Dr

**THAI**
- **NERAMITA THAI** 703-413-8886
  2200 Crystal Dr

**MIDDLE EASTERN**
- **KABOB PALACE** 703-486-3535
  2315 S Eads St
- **MEZEH MEDITERRANEAN GRILL** 703-685-9907
  2450 Crystal Drive

**BARS/Tavern Fare**
- **BAR LOUIE** 571-302-7420
  320 23rd St S
- **BELL2O RESTAURANT** 703-413-6520
  1999 Jefferson Davis Hwy
- **BUFFALO WILD WINGS** 703-413-0160
  2450 Crystal Dr
- **CRYSTAL CITY SPORTS PUB** 703-521-8215
  529 23rd St S
- **FREDIEE'S BEACH BAR** 703-685-0555
  555 23rd St S

* Restaurant in Crystal City Shops
WEPAN’s Mission is to Advance Cultures of Inclusion and Diversity in Engineering Education and Professions.

WEPAN Aims to Achieve this Mission by:

Empowering People and Organizations who are Catalysts of Change
Ensuring the Success of Women in Engineering Education and Professions
Sustaining a Strong Network
Creating Research-Based Evidence
Driving Successful Implementation of Best Practices
Developing Useful and Timely Resources

WEPAN would like to Acknowledge the Generous Support of its Following Partners

Corporate Catalyst for Change

Chevron

Institutional Champions

IOWA STATE UNIVERSITY
College of Engineering

THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

PURDUE UNIVERSITY
Women in Engineering Program
COLLEGE OF ENGINEERING

UCDAVIS
COLLEGE OF ENGINEERING

University of Dayton
School of Engineering

MEETING ROOM

LOBBY

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TAMPA CONVENTION CENTER | TAMPA, FL
ON-SITE REGISTRATION FEES

<table>
<thead>
<tr>
<th>REGISTRATION TYPE</th>
<th>FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Participant</td>
<td>$950</td>
</tr>
<tr>
<td>One Day Monday or Tuesday</td>
<td>$425</td>
</tr>
<tr>
<td>Student Registration Fee</td>
<td>$350</td>
</tr>
<tr>
<td>Guest</td>
<td>$300</td>
</tr>
<tr>
<td>Children 10 and under</td>
<td>Free</td>
</tr>
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</table>

$300 GUEST FEE INCLUDES THE FOLLOWING ACTIVITIES:

SUNDAY
- OPENING RECEPTION

MONDAY
- BREAKFAST AND KEYNOTE
- LUNCH AND PRESENTATIONS
- BANQUET AND DANCE PARTY

TUESDAY
- BREAKFAST AND KEYNOTE
- LUNCH AND PANEL

WEDNESDAY
- BREAKFAST AND KEYNOTE
- CLOSING SESSION

CONECD REGISTRATION DESK HOURS – MARRIOTT CRYSTAL GATEWAY BALLROOM FOYER

<table>
<thead>
<tr>
<th>DATE</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Sunday, April 14</td>
<td>8:00 a.m. – 5:00 p.m.</td>
</tr>
<tr>
<td>Monday, April 15</td>
<td>8:00 a.m. – 5:00 p.m.</td>
</tr>
<tr>
<td>Tuesday, April 16</td>
<td>8:00 a.m. – 5:00 p.m.</td>
</tr>
<tr>
<td>Wednesday, April 17</td>
<td>8:00 a.m. – Noon</td>
</tr>
</tbody>
</table>

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 casual attire is appropriate for the CoNECD sessions.
U18C - Registration
8:00 a.m. - 6:00 p.m., Ballroom Foyer, Marriott Crystal Gateway
Sponsor: CoNECD HQ

U18A - Mother’s Room
8:00 a.m. - 5:00 p.m., Rosslyn II, Marriott Crystal Gateway
Sponsor: CoNECD HQ

U18B - Quiet Room
8:00 a.m. - 5:00 p.m., Rosslyn I, Marriott Crystal Gateway
Sponsor: CoNECD HQ

U15A - WEPAN Workshop: Men Allies For Gender Equity
9:00 a.m. - 12:45 p.m., Jefferson, Marriott Crystal Gateway
Sponsor: WEPAN
Speaker: Dr. Roger A. Green, North Dakota State University
This interactive workshop encourages and equips men to serve as effective allies for gender equity in STEM settings. To begin, we highlight data on the recruitment, retention, and advancement of women as well as the importance of institutional climate. Next, we present an overview of recent literature that helps explain why and how gender inequity occurs. Lastly, we introduce and develop concepts, vocabulary, actions, and practical skills to promote gender equity. The workshop is structured as an interactive conversation, with opportunities to learn, ask questions, and practice skills through scenario-based exercises. This workshop will be led by Dr. Roger Green, an associate professor of electrical and computer engineering at North Dakota State University, who has conducted Ally Workshops at universities throughout the country since 2009. Please note that registration for this pre-conference workshop is restricted to those who identify as male. The similar “Minorities and Higher Education: Exploring Experiences of Women” workshop is available for those identifying as women.

Purpose: To help men become effective proponents of gender equity.
Learning Goals: Workshop participants will:
1. Understand the context of gender inequity in academia, with particular emphasis on engineering.
2. Be introduced to relevant concepts and literature, including unconscious bias and male privilege.
3. Learn how to get started as an Ally, including individual actions for Allies.
4. Use scenarios to practice Ally skills.
5. Obtain resources to assist personal development and/or establish Advocates and Allies programs.

Materials: Workshop attendees will receive the Ally Workshop presentation slides (electronic format) and handouts (printed and electronic formats).

Activities: Activities include presentation of materials, small group scenarios, development of individual actions, and open question-and-answer opportunities.

Ticketed event: WEPAN Members - $150 in advance and $175 on-site registration
WEPAN Non-members - $200 in advance and $225 on-site registration

U15B - WEPAN Workshop: Navigating Conflict Effectively
10:00 a.m. - 12:00 p.m., Salon G&F, Marriott Crystal Gateway
Sponsor: WEPAN
Regardless of what organization or sector of business you work in, people must learn to effectively communicate with others to increase productivity and create engagement within teams. Business requires us to collaborate with people from different generations, cultures, and levels of experience, in a work environment where conflict is readily available.
Purpose: We all deal with conflict in one way or another, and it can easily be fueled by our style of communication. So unless we have enough self-awareness around our tendencies, we are likely contributing to those interactions in a negative way. Healthy conflict is important, but we tend to avoid having difficult conversations or aren’t having the right conversations to navigate those conflicts well.
Learning Goals: When you understand your own style and adapt to the styles of others, it creates opportunity for diversity of thought, allowing new ideas to emerge, and ultimately improves results. In this interactive workshop, participants will:
1. Discuss challenges associated with communication and what causes conflict.
2. Learn about four different communication styles and discover the primary tendencies each style demonstrates when interacting with others.
3. Identify stressors and motivators to each style and learn how to leverage strengths to improve outcomes when communicating with people.
4. Discover the benefits of establishing connections with others through building trust.
5. List steps to effectively manage negative conflict and move toward productive interactions with others.

This workshop will be led by Kathy Sullivan, M.A., SPHR, who has spent 20 years coaching and consulting with businesses to develop individuals, teams, and organizations in order to increase productivity.
Conference Sessions  Sunday, April 14

U16A - NAMEPA Workshop: Are Your Policies Creating an Institutional Barrier for Equity? Identifying and Removing Barriers to Equity and Creating a Business Case for Policy Change

9:00 a.m. - 12:45 p.m., Salon E&D, Marriott Crystal Gateway

Speaker: Dr. Christi McGeorge, Professor of Human Development and Education, North Dakota State University

This session explores the impact of gender and racial/ethnic identity on an individual’s experiences of campus climate. Through small group activities, a review of the existing research, and large group discussions, this session will seek to shift the dialogue from individual problems and solutions to seeking to acknowledge and identify institutional challenges and solutions.

The session will begin with a series of small group table activities that will facilitate a discussion of:
1) the barriers to a positive and equitable climate in university units/departments;
2) institutional changes needed to address issues related to inequity in participants’ institutions;
3) individual actions by faculty, staff, and administrators that can help to address issues related to inequity at institutions.

The second portion of the session will involve a PowerPoint presentation summarizing recent literature on the experiences of diverse faculty and students. The topics covered will include letters of recommendation, evaluation of faculty job candidates, students’ ratings of instruction, evaluation of faculty research, and differences in perceived speaking. As we review the research, we will invite participants to reflect on and share how this research mirrors or differs from their own experiences in higher education.

The final portion of the session will be a large group discussion on shifting the focus from individual solutions to institutional solutions. The session will end with a brainstorming activity focused on generating concrete actions that institutions can take to increase equity. Please note that this session is developed for women, including women of color, and those identifying as female. The “Men Allies for Gender Equity” workshop is available for men and those identifying as male.

Learning Goals: Workshop participants will:
• Understand the context of gender and racial/ethnic inequity in academia through reviewing the literature on faculty experiences in higher education
• Be able to identify a number of different institutional solutions that could be enacted to create greater equity on their university campuses

Materials: Workshop attendees will receive the presentation slides (electronic format).
Activities: Activities include presentation of materials, small group discussions, and open question-and-answer opportunities.

Ticketed event: Non-Members - $200 in advance and $225 on-site registration

NAMEPA Members - $150 in advance and $175 on-site registration

U16B - NAMEPA and WEPAN Workshop: Minorities And Higher Education: Exploring Experiences Of Women

9:00 a.m. - 12:45 p.m., Madison, Marriott Crystal Gateway

Sponsors: NAMEPA; WEPAN

Speaker: Dr. Christi McGeorge, Professor of Human Development and Education, North Dakota State University

This session explores the impact of gender and racial/ethnic identity on an individual’s experiences of campus climate. Through small group activities, a review of the existing research, and large group discussions, this session will seek to shift the dialogue from individual problems and solutions to seeking to acknowledge and identify institutional challenges and solutions.

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Ticketed event: Non-Members - $200 in advance and $225 on-site registration

Members - $150 in advance and $175 on-site registration

Pre-Work:
A Personal Styles Assessment instrument will be provided by PRADCO to participants who are registered for the workshop as of April 1, 2019 at no additional fee. Note: Late registrants may still complete the assessment and attend the workshop, but individual results will not be aggregated in the workshop presentation and may not be made available until after the workshop.

Ticketed event: WEPAN Non-Members - $200 in advance and $225 on-site registration

WEPAN Members - $150 in advance and $175 on-site registration

and organizational effectiveness. As Director of Organizational Development, she oversees the Coaching and OD practices at PRADCO, and works with clients utilizing various assessment tools to improve overall leadership capabilities of its employees, creating a more motivated and engaged workforce.

Activities: Activities include presentation of materials, small group discussions, and open question-and-answer opportunities.

Materials: Workshop attendees will receive the presentation slides (electronic format).

Schedule subject to change: Please go to www.asee.org/icp/CoNECD for up to date information

29
U15C - WEPAN Workshop: A Director’s Guide To Creating And Sustaining Successful Women In Engineering Programs
1:45 p.m. - 5:30 p.m., Salon G&F, Marriott Crystal Gateway
**Sponsor: WEPAN**
Speaker: Lora Leigh Chrystal, Director, Program for Women in Science and Engineering, Iowa State University
This session provides best practices for new and intermediate-level directors of Women in Engineering Programs. There are few courses or guides that provide clear instructions or strategic guides for organizational positioning, management, and success in increasing the retention and graduation rates of women in engineering. Topics covered will include a review of the most effective retention program models, fund raising and sustainability, staffing, and programming tips that create an effective learning community for women in engineering. Participants will hear from experienced practitioners and receive a guide with presentation materials and research information upon which successful programs are built.

**Purpose:** To provide resources to new and current programs serving underrepresented students in STEM.

**Learning Goals:** Workshop participants will:
• understand the historical context of women in STEM programs and a framework for promoting gender equity in organizations
• obtain tools to manage, evaluate, brand, and fund your program
• develop a network of support through other participants

**Materials:** Workshop attendees will receive the WEPAN Director’s Guide and supplemental materials.

Ticketed event: WEPAN Non-Member - $200 in advance and $225 on-site registration
WEPAN Member - $150 in advance and $175 on-site registration

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U416 - NAMEPA Workshop: Escaping The Valley Of Death: Research To Practice And Practice To Research In Diversity, Equity, And Inclusion
1:45 p.m. - 5:30 p.m., Salon E&D, Marriott Crystal Gateway
**Sponsor: NAMEPA**
The many ideas that emerge from research in engineering face existential threats along the journey from reported finding to practical implementation and societal impact. In entrepreneurial terms, this gap is called the “Valley of Death” which lies between basic research/invention and delivery of the innovation. An analogous valley of death exists within diversity, equity, and inclusion work in engineering education. There is consensus that research exploration should be framed to make impact and educational practices should be informed by evidence. However, research performed may not hold apparent relevance to practitioners, and practitioners may be unaware of relevant research that exists, perpetuating the valley of death. Successfully traversing the valley of death is critical to making transformational progress in diversity, equity, and inclusion in engineering education. How can faculty members, program directors, academic administrators, and institutional leaders procure necessary evidence to create conditions that cultivate diversity, equity, and inclusion in engineering education? How can engineering education researchers effectively investigate emerging challenges with insights from individuals who see the “on-the-ground” realities on a daily basis? This interactive session will bring together DEI researchers and practitioners to share their perspectives on the challenges of bringing research to practice and practice to research, and panelists will share their strategies for traversing this particular “valley of death.” Through collaborative ideation, attendees will build a shared agenda around the critical areas of focus and will leave with new connections to stimulate research ideas and improve educational practice over the next year.

Ticketed event: Non-Members - $200 in advance and $225 on-site registration
Members - $150 in advance and $175 on-site registration

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U418 - Sunday Reception
6:00 p.m. - 7:30 p.m., Skyview, Marriott Crystal Gateway
**Sponsor: CoNECD HQ**
Free ticketed event
Join over 12,000 engineering and engineering technology faculty members, administrators, and government and industry representatives who currently take advantage of ASEE professional membership.

MEMBERSHIP INCLUDES

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» Conferences and Proceedings
» Networking Opportunities
» Online Resources
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WITH SUPPORT FROM

ASEE Committee on Diversity, Equity, and Inclusion

Chevron
human energy
M18C - Registration
8:00 a.m. - 5:00 p.m., Ballroom Foyer, Marriott Crystal Gateway
Sponsor: CoNECD HQ

M18A - Mother’s Room
8:00 a.m. - 5:00 p.m., Rosslyn II, Marriott Crystal Gateway
Sponsor: CoNECD HQ

M18B - Quiet Room
8:00 a.m. - 5:00 p.m., Rosslyn I, Marriott Crystal Gateway
Sponsor: CoNECD HQ

M118 - Monday Breakfast
8:00 a.m. - 9:00 a.m., Grand Ballroom, Marriott Crystal Gateway
Sponsor: CoNECD HQ
Free ticketed event

M218B - Monday General Session
9:15 a.m. - 10:15 a.m., Grand Ballroom, Marriott Crystal Gateway
Sponsor: CoNECD HQ
Welcome Remarks from Organizing Committee Chairs
Bevlee Watford, ASEE Past President
Darryl Dickerson, President, NAMEPA
Kitty Didion, Executive Director, WEPAN
Beena Sukumaran, Women in Engineering Division, ASEE
Rochelle Williams, Minorities in Engineering Division, ASEE

Keynote Speakers
Ann Gulley is co-founder of the Logan Project at Auburn University at Montgomery, where she is a doctoral student in educational psychology. An education researcher whose primary focus is the development of tools to promote inclusive learning environments, she places a high value on the experiences that students across the spectrum of ability bring to the table. Ann is committed to both a User-Centered Design and Universal Design for Learning approach to the development of new educational methods and technologies. She has been an invited speaker at the National Science Foundation and is the recipient of Auburn University at Montgomery’s 2016 Diversity and Inclusiveness award. In her free time, Ann enjoys hiking, playing the piano, and spending time with family.

Logan Prickett, co-founder of the Logan Project, graduated from Auburn University at Montgomery in May 2018 with a degree in psychology. He is currently pursuing a master’s degree in clinical mental health counseling at AUM. His experiences as a student who is blind and unable to use braille or to speak above a whisper were essential in the development of Process-Driven Math. This method of math instruction and assessment gave Logan the tools he needed to succeed in college-level math and has provided support for other unique learners across the spectrum of ability. Logan has been an invited speaker at the National Science Foundation. His research focus is the development of technologies from a User-Centered Design perspective that will increase educational opportunities for students with disabilities. In his spare time, Logan loves to hunt, fish, ride horses, and skydive.

Opening Doors for the Next Generation of Engineers
Logan Prickett’s lived experiences include an anoxic brain injury so catastrophic that he spent 45 minutes in cardiac and respiratory arrest, 12 days in a coma, and months recovering in hospitals. Then he went home. Ten years later, Logan is now a graduate student who is blind, a wheelchair user, and unable to speak above a whisper. Logan has limited ability to write or type and is unable to use braille. However, by focusing on the abilities he has rather than those he lost, Logan co-created Process-Driven Math, his own solution to mathematics accessibility. The method was later adapted for a sighted student with dyslexia and dyscalculia who also needed additional tools to succeed in math. Our next step is to work with engineers to create an inclusive Process-Driven Math learning tool to provide support for many diverse learners. Ultimately, we hope the tool we create will help open the doors to engineering careers for more people with disabilities. At the Logan Project, we are convinced that the world needs its most unique people on the teams that will be solving our world’s greatest problems in the future.

M218A - Monday A.M. Networking Break
10:15 a.m. - 10:30 a.m., Skyview, Marriott Crystal Gateway
Sponsor: CoNECD HQ

M301A - Track: Pre-college - Technical Session I
10:30 a.m. - 11:10 a.m., Lee, Marriott Crystal Gateway
Sponsor: Pre-College
Moderator: Crystal Smith, New Jersey Institute of Technology
Presentations in this track cover a variety of topics related to pre-college recruitment and retention, including summer outreach programs and the results of a major pilot program aimed at preparing students for algebra.

Exploring Student Perceptions of Teamwork in a Summer Outreach Program
Mrs. Cheryl Beauchamp, Virginia Tech
Dr. Cherie D. Edwards, Virginia Tech
Dr. Walter C. Lee, Virginia Tech
Dr. David B. Knight, Virginia Tech
Dr. Glenda D. Young Collins, Mississippi State University
M303A - Track: Faculty - Technical Session I
10:30 a.m. - 11:10 a.m., Pentagon A&B, Marriott Crystal Gateway
Sponsor: Faculty
Moderator: Alaine Allen, University of Pittsburgh
Presentations in this track explore the experience of faculty members, including collaborations on grant proposals and ways to improve the recruitment, retention, promotion, and job satisfaction of faculty in STEM departments.

Exploring Faculty Perceptions of Students' Characteristics at Hispanic-serving Institutions
Dr. Meagan R. Kendall, University of Texas, El Paso
Dr. Alexandra Coso Strong, Florida International University
Dr. Ines Basalo, University of Miami
Gemma Henderson, University of Miami

M304A - Track: Collegiate - Technical Session I
10:30 a.m. - 11:10 a.m., Jackson, Marriott Crystal Gateway
Sponsor: Collegiate
Moderator: Darryl Williams, The Franklin Institute
Presentations in this track examine student pathways, including study abroad experiences of prospective transfer students, the retention and graduation of women in engineering programs, and an alternative college screening admission process.

A Statewide Effort to Diversify the Undergraduate Engineering Student Population
Dr. David Jones, University of Nebraska, Lincoln
Dr. Sohrab Asgarpoor, University of Nebraska, Lincoln
Jen Skidmore, University of Nebraska, Lincoln
Dr. Lance C. Pérez, University of Nebraska, Lincoln
Dr. Trish Wnoch Hill
Mr. Michael Loehring
Dr. Emily Griffin Overocker, University of Nebraska, Lincoln

M306A - Track: Special Topic - Computing & Technology Technical Session I
10:30 a.m. - 11:10 a.m., Salon E&D, Marriott Crystal Gateway
Sponsor: Special Topic: Computing & Technology
Moderator: Stephen Jones, Villanova University
Presentations in this track cover a variety of efforts related to broadening participation in computing and technology fields, including increasing career and technical education programs.

Changing Perceptions of Who Can Code: A Professional Development Program for Career and Technical Education Teachers
Dr. Mihaela Sabin, University of New Hampshire
Wendy DuBow, University of Colorado
Dr. Adrienne Ann Smith, Cynosure Consulting
Dr. Rosabel Deloge, Educational Consultant-Independent

M308B - Track: Learning Spaces, Pedagogy & Curriculum Design Technical Session I
10:30 a.m. - 11:10 a.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.

Engaging in STEM Education Equity Work Through a Course: Studying Race, Class, and Gender Theory in Engineering Education
Ms. Tikyna M. Dandridge, Purdue University, West Lafayette
Mr. Hassan Ali Al Yagoub, Purdue University, West Lafayette
Ms. Sharlane Cleare, Purdue University, West Lafayette
Mr. Justin Charles Major, Purdue University, West Lafayette
Ms. Dina Verdin, Purdue University, West Lafayette
Shalin Lena Raye, Purdue University, West Lafayette
Ms. Casey E. Wright, Purdue University, West Lafayette
Dr. Alice L. Pawley, Purdue University, West Lafayette
Conference Sessions

M317A - Track: Special Topic - Social Justice and Reform Technical Session I
10:30 a.m. - 11:10 a.m., Salon G&F, Marriott Crystal Gateway
Sponsor: Special Topic: Social Justice & Reform
Moderator: Jenna Carpenter, Campbell University
Presentations in this track explore ways to foster and sustain an inclusive environment, including how to embed social justice into a curriculum.

Aligning Your Research Methods with Your Social Justice Values
Dr. Emily Alicia Affolter, University of Washington
Dr. Elizabeth Litzler, University of Washington
Dr. Cara Margherio, University of Washington
Dr. Emily Knaphus-Soran, University of Washington

M301B - Track: Pre-college - Technical Session 2
11:20 a.m. - 12:00 p.m., Lee, Marriott Crystal Gateway
Sponsor: Pre-College
Moderator: Georjanne Williams,
Presentations in this track cover a variety of topics related to pre-college recruitment and retention, including summer outreach programs and the results of a major pilot program aimed at preparing students for algebra.

Design Projects as a Linkage Between Interests and Career Aspirations: An Examination of Underrepresented Incoming Freshmen STEM Students
Ms. Lauren A. Griggs, Virginia Commonwealth University
Dr. Rosalyn S. Hobson Hargraves, Virginia Commonwealth University
Ms. Briana Nicole James, Virginia Commonwealth University

M303B - Track: Faculty - Technical Session 2
11:20 a.m. - 12:00 p.m., Pentagon A&B, Marriott Crystal Gateway
Sponsor: Faculty
Moderator: Rachel Koh, Lafayette College
Presentations in this track explore the experience of faculty members, including collaborations on grant proposals and ways to improve the recruitment, retention, promotion, and job satisfaction of faculty in STEM departments.

Collaborating with Faculty on Broader Impacts Portions of the NSF Grant Proposal Process Regarding K-12 Outreach
Ms. Christine Newman, Johns Hopkins University

M304B - Track: Collegiate - Technical Session 2
11:20 a.m. - 12:00 p.m., Jackson, Marriott Crystal Gateway
Sponsor: Collegiate
Moderator: Rochelle Williams, Association for Women in Science
Presentations in this track examine student pathways, including study abroad experiences of prospective transfer students, the retention and graduation of women in engineering programs, and an alternative college screening admission process.

Can Eye Tracking Detect Implicit Bias Among People Navigating Engineering Environments?
Mr. Kylel Devine Scott, Arizona State University, Polytechnic
Ms. Kamille Green, Arizona State University, Polytechnic
Dr. Brooke Charae Coley, Arizona State University, Polytechnic

M306B - Track: Special Topic - Computing & Technology Technical Session 2
11:20 a.m. - 12:00 p.m., Salon E&D, Marriott Crystal Gateway
Sponsor: Special Topic: Computing & Technology
Moderator: Jami Joyner, Cornell University
Presentations in this track cover a variety of efforts related to broadening participation in computing and technology fields, including increasing career and technical education programs.

M308 - Track: Learning Spaces, Pedagogy & Curriculum Design Technical Session 2
11:20 a.m. - 12:00 p.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Moderator: Andrea Haverkamp, Oregon State University
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.

Work in Progress: Bridging the Gap Between Accommodations Letters and Emerging Classroom Practices
Dr. Alisha L. Sarang-Sieminski, Franklin W. Olin College of Engineering
Adva Waranyuwat
Emily Ferrier, Franklin W. Olin College of Engineering
Dr. Alison Wood, Franklin W. Olin College of Engineering
Dr. Daniela Faas, Franklin W. Olin College of Engineering

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Conference Sessions

M317B - Track: Special Topic - Social Justice & Reform Technical Session 2
11:20 a.m. - 12:00 p.m., Salon G&F, Marriott Crystal Gateway
Sponsor: Special Topic: Social Justice & Reform
Moderator: Thomas Litzinger, Pennsylvania State University, University Park
Presentations in this track explore ways to foster and sustain an inclusive environment, including how to embed social justice into a curriculum.

Targeted Harassment of Engineering Education Researchers: How to Connect with Community and Support Your Colleagues Under Attack
Dr. Alice L. Pawley, Purdue University, West Lafayette
Dr. Erin A. Cech, University of Michigan
Dr. Stephanie Farrell, Rowan University
Dr. Donna M. Riley, Purdue University, West Lafayette

M318A - Monday Lunch & WEPAN Hi Five! Presentations
12:15 p.m. - 1:30 p.m., Grand Ballroom, Marriott Crystal Gateway
Sponsor: CoNECD HQ
Featuring welcome remarks from WEPAN Executive Director Kitty Didion.

Free ticketed event

M401 - Track: Pre-college: Technical Session 3
1:30 p.m. - 2:10 p.m., Lee, Marriott Crystal Gateway
Sponsor: Pre-College
Presentations in this track cover a variety of topics related to pre-college recruitment and retention, including summer outreach programs and the results of a major pilot program aimed at preparing students for algebra.

Numeracy: Preparing Students for Success in Algebra
Dr. Whitney Gaskins, University of Cincinnati
Dr. Darryl Dickerson, Purdue University, West Lafayette
Ms. Virginia Lynn Booth Womack, Purdue University, West Lafayette
Mr. Delano White, The Gaskins Foundation

M403 - Track: Faculty - Technical Session 3
1:30 p.m. - 2:10 p.m., Pentagon A&B, Marriott Crystal Gateway
Sponsor: Faculty
Moderator: Helene Finger, California Polytechnic State University, San Luis Obispo
Presentations in this track explore the experience of faculty members, including collaborations on grant proposals and ways to improve the recruitment, retention, promotion, and job satisfaction of faculty in STEM departments.

Work in Progress: Proactive Dual-career and Relocation Assistance During the Faculty Interview Process
Dr. Robyn Sandekian, University of Colorado, Boulder
Mrs. Karen G. Braun, University of Colorado, Boulder
Dr. Sarah Miller, University of Colorado, Boulder

M404 - Track: Collegiate - Technical Session 3
1:30 p.m. - 2:10 p.m., Jackson, Marriott Crystal Gateway
Sponsor: Collegiate
Moderator: Andrea Salazar Morgan, Colorado School of Mines
Presentations in this track examine student pathways, including study abroad experiences of prospective transfer students, the retention and graduation of women in engineering programs, and an alternative college screening admission process.

Dilemmas in Cocurricular Support: A Theoretical and Pragmatic Discussion on Current Practices and Future Challenges
Dr. Stephen Secules, Purdue University, West Lafayette
Dr. Walter C. Lee, Virginia Tech
Ms. Karis Boyd-Sinkler, Virginia Tech
Adam Stark Masters, Virginia Tech
Cynthia Hampton, Virginia Tech
Ms. Ashley R. Taylor, Virginia Tech
Dustin M. Grote, Virginia Tech

M406 - Track: Special Topic - Computing & Technology Technical Session 3
1:30 p.m. - 2:10 p.m., Salon E&D, Marriott Crystal Gateway
Sponsor: Special Topic: Computing & Technology
Moderator: Leonard Bohmann, Michigan Technological University
Presentations in this track cover a variety of efforts related to broadening participation in computing and technology fields, including increasing career and technical education programs.

Broadening Participation of Hispanics in Computing: The CAHSI INCLUDES Alliance
Dr. Elsa Q. Villa, University of Texas, El Paso
Dr. Sarah Hug, Colorado Evaluation & Research Consulting
Dr. Heather Thiry, Golden Evaluation Consulting
Dr. David S. Knight, The University of Texas, El Paso
Mrs. Elizabeth Fonny Hall, The University of Texas, El Paso
Andrea Tirres, University of Texas, El Paso
M408 - Track: Learning Spaces, Pedagogy, and Curriculum Design Technical Session 3
1:30 p.m. - 2:10 p.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Moderator: William Kitch, Angelo State University
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.
  * Improving Inclusivity and Diversity in College STEM Programs Through Metacognitive Classroom Practices
    - Dr. Elizabeth Hane, Rochester Institute of Technology
    - Dr. Scott Franklin, Rochester Institute of Technology

M417 - Track: Special Topic - Social Justice & Reform Technical Session 3
1:30 p.m. - 2:10 p.m., Salon G&F, Marriott Crystal Gateway
Sponsor: Special Topic: Social Justice & Reform
Moderator: Kyle Trenshaw, University of Rochester
  * Measuring the Conceptualization of Oppression and Privilege
  - Rachel M. Johnson, University of Minnesota
  - Michelle Kay Bothwell, Oregon State University
  - Dr. Devlin Montfort, Oregon State University
  - Kali Furman, Oregon State University

M501B - Track: Pre-college - Technical Session 4
2:20 p.m. - 3:00 p.m., Lee, Marriott Crystal Gateway
Sponsor: Pre-College
Moderator: Ana Dison, University of Texas, Austin
Presentations in this track cover a variety of topics related to pre-college recruitment and retention, including summer outreach programs and the results of a major pilot program aimed at preparing students for algebra.
  * Summer Bridge Design: Purposely Fostering Engineering Expertise and Success with the Redshirting in Engineering Program Scholars
    - Ms. Tanya D. Ennis, University of Colorado, Boulder
    - Dr. Beth A. Myers, University of Colorado, Boulder
    - Miss Cara Frances Lammey, University of Colorado, Boulder

M503B - Track: Faculty - Technical Session 4
2:20 p.m. - 3:00 p.m., Pentagon A&B, Marriott Crystal Gateway
Sponsor: Faculty
Moderator: Bruk Berhane, University of Maryland, College Park
Presentations in this track explore the experience of faculty members, including collaborations on grant proposals and ways to improve the recruitment, retention, promotion, and job satisfaction of faculty in STEM departments.
  * Diversity and Inclusion and Research Partnership Development: Can Seed Investments Really Help Promote Trans-institutional Collaborations?
    - Mr. Yousef Jalali, Virginia Tech

M504 - Track: Collegiate - Technical Session 4
2:20 p.m. - 3:00 p.m., Jackson, Marriott Crystal Gateway
Sponsor: Collegiate
Moderator: Elizabeth Litzler, University of Washington
Presentations in this track examine student pathways, including study abroad experiences of prospective transfer students, the retention and graduation of women in engineering programs, and an alternative college screening admission process.
  * CPP WE: Retaining and Graduating Women in Undergraduate Engineering
    - Dr. Kristina Rigden, California State Polytechnic University, Pomona
    - Nicole Gutzke, California State Polytechnic University, Pomona

M508A - Track: Learning Spaces, Pedagogy & Curriculum Design Technical Session 4
2:20 p.m. - 3:00 p.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Moderator: Gregory Singleton, University of Alabama
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.
  * Practitioner Learning Community: Design of Instructional Content, Pedagogy, and Assessment Metrics for Inclusive and Socially Just Teaching Practices
    - Dr. Benjamin David Lutz, California Polytechnic State University, San Luis Obispo
    - Michelle Kay Bothwell, Oregon State University
    - Nick AuYeung, Oregon State University
    - Trevor Kenneth Carlisle, Oregon State University
    - Dr. Natasha Mallette P.E., Oregon State University
    - Dr. Susannah C. Davis, Oregon State University

M517 - Track: Special Topic - Social Justice & Reform Technical Session 4
2:20 p.m. - 3:00 p.m., Salon G&F, Marriott Crystal Gateway
Sponsor: Special Topic: Social Justice & Reform
Moderator: Heidi Steinhauer, Embry-Riddle Aeronautical University, Daytona Beach
Presentations in this track explore ways to foster and sustain an inclusive environment, including how to embed social justice into a curriculum.
  * Design and Implementation of an Engineering for Social Justice Curriculum
    - Dr. Dianne Grayce Hendricks, University of Washington
    - Celina Gunnarsson, Massachusetts Institute of Technology
    - Camille Birch, University of Washington

Schedule subject to change: Please go to https://www.asee.org/icp/CoNECD for up to date information
M518 - Monday P.M. Networking Break
3:00 p.m. - 3:30 p.m., Skyview, Marriott Crystal Gateway
Sponsor: CoNECD HQ

M501A - Track: Pre-college - Technical Session 5
3:45 p.m. - 4:25 p.m., Lee, Marriott Crystal Gateway
Sponsor: Pre-College
Moderator: Mary Beth Meyer
Presentations in this track cover a variety of topics related to pre-college recruitment and retention, including summer outreach programs and the results of a major pilot program aimed at preparing students for algebra.

Near-peer Mentoring as a Tool for Increasing Interest in STEM
Ms. Margaret Hart, Johns Hopkins University
Ms. Christine A. Newman, Johns Hopkins University

M503A - Track: Faculty - Technical Session 5
3:45 p.m. - 4:25 p.m., Pentagon A&B, Marriott Crystal Gateway
Sponsor: Faculty
Moderator: Laura Bottomley, North Carolina State University
Presentations in this track explore the experience of faculty members, including collaborations on grant proposals and ways to improve the recruitment, retention, promotion, and job satisfaction of faculty in STEM departments.

Transitioning from WISE to WISER–Life After an NSF ADVANCE Grant
Miss Leanne DeVreugd, Oakland University
Prof. Laila Guessous, Oakland University
Dr. Julie Walters, Oakland University
Bradley John Roth
Dr. Sanela Martic
Kathleen Moore, Oakland University
Jo Reger, Oakland University

M504B - Track: Collegiate - Technical Session 5
3:45 p.m. - 4:25 p.m., Jackson, Marriott Crystal Gateway
Sponsor: Collegiate
Moderator: Karis Boyd-Sinkler, Virginia Tech
Presentations in this track examine student pathways, including study abroad experiences of prospective transfer students, the retention and graduation of women in engineering programs, and an alternative college screening admission process.

Indicators of Participation: A Critical Review of Publicly Available STEM Data Sources
Crystal M. Pee, Virginia Tech
Dr. Walter C. Lee, Virginia Tech
Dr. Jeremi S. London, Virginia Tech
Gilbert Jew, Arizona State University
Teirra K. Holloman, Virginia Tech
Dr. Chanée D. Hawkins Ash, Virginia Tech
Dr. Bevlee Watford, Virginia Tech

M506 - Track: Special Topic - Computing & Technology Technical Session 5
3:45 p.m. - 4:25 p.m., Salon E&D, Marriott Crystal Gateway
Sponsor: Special Topic: Computing & Technology
Moderator: Ashley Taylor, Virginia Tech
Presentations in this track cover a variety of efforts related to broadening participation in computing and technology fields, including increasing career and technical education programs.

Women of Color in Computing: A Researcher-practitioner Collaborative
Frieda McAlear, Kapor Center
Dr. Allison Scott, Kapor Center

M508B - Track: Learning Spaces, Pedagogy & Curriculum Design Technical Session 5
3:45 p.m. - 4:25 p.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Moderator: Andrea Moreno, University of Texas, Austin
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.

Storytelling and Utopia as Resistance to Marginalization of African-American Engineers at a PWI
Ms. Chanel Beebe, Purdue University, West Lafayette

M517B - Track: Special Topic - Social Justice & Reform Technical Session 5
3:45 p.m. - 4:25 p.m., Salon G&F, Marriott Crystal Gateway
Sponsor: Special Topic: Social Justice & Reform
Moderator: Amy Beebe
Presentations in this track explore ways to foster and sustain an inclusive environment, including how to align research methods with social justice values.

Integrating Inclusive Pedagogy and Experiential Learning to Support Student Empowerment, Activism, and Institutional Change: A Case Study with Transgender STEM Students
Kristin Boudreau, Worcester Polytechnic Institute
Mr. Leo Ryan Bunyea, Worcester Polytechnic Institute
Dr. David DiBiasio, Worcester Polytechnic Institute
Rozwell Johnson

M601 - Track: Pre-college - Technical Session 6
4:35 p.m. - 5:15 p.m., Lee, Marriott Crystal Gateway
Sponsor: Pre-College
Presentations in this track cover a variety of topics related to pre-college recruitment and retention, including summer outreach programs and the results of a major pilot program aimed at preparing students for algebra.

The Effectiveness of Engineering Camps as Pre-college Recruitment Tools
Malle Schilling, University of Dayton
Dr. Margaret Pinnell, University of Dayton
M603 - Track: Faculty - Technical Session 6
4:35 p.m. - 5:15 p.m., Pentagon A&B, Marriott Crystal Gateway
Sponsor: Faculty
Presentations in this track explore the experience of faculty members, including collaborations on grant proposals and ways to improve the recruitment, retention, promotion, and job satisfaction of faculty in STEM departments.

Engineering Faculty Well-being: Resilience and Secret Mentors
Shannon K. Stefl, Clemson University
Dr. Julie P. Martin, Clemson University
Dr. Karen A. High, Clemson University

M604 - Track: Collegiate - Technical Session 6
4:35 p.m. - 5:15 p.m., Jackson, Marriott Crystal Gateway
Sponsor: Collegiate
Moderator: Bryan Hill, University of Arkansas
Presentations in this track examine student pathways, including study abroad experiences of prospective transfer students, the retention and graduation of women in engineering programs, and an alternative college screening admission process.

Shifting Pre-Calculus from a Gatekeeper to a Gateway Course
Dr. Julian Viera Jr., University of Texas, El Paso
Dr. Elsa Q. Villa, University of Texas, El Paso
Christina Convertino
Dr. Erika Mein, University of Texas, El Paso
Dr. Sarah Hug, University of Colorado, Boulder

M606 - Track: Special Topic - Computing & Technology Technical Session 6
4:35 p.m. - 5:15 p.m., Salon E&D, Marriott Crystal Gateway
Sponsor: Special Topic: Computing & Technology
Presentations in this track cover a variety of efforts related to broadening participation in computing and technology fields, including increasing career and technical education programs.

Engineering a New Reality: Using Virtual Reality to Cultivate Inclusive Mindsets Among Engineering Faculty
Claudio Vignola, Arizona State University, Polytechnic campus
Mr. Nicholas Flowers, Arizona State University
Dr. Brooke Charae Coley, Arizona State University, Polytechnic campus

M608 - Track: Learning Spaces, Pedagogy & Curriculum Design Technical Session 6
4:35 p.m. - 5:15 p.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.

High Risk (With Hope For) High Reward: Lessons Learned from Planning and Hosting an Unconference
Adam Stark Masters, Virginia Tech
Dr. Lisa D. McNair, Virginia Tech
Dr. Donna M. Riley, Purdue University, West Lafayette

M617 - Track: Special Topic - Social Justice and Reform Technical Session 6
4:35 p.m. - 5:15 p.m., Salon G&F, Marriott Crystal Gateway
Sponsor: Special Topic: Social Justice & Reform
Presentations in this track explore numerous ways to foster and sustain an inclusive environment, including organizing a movement to enact structural change to address inequality in engineering.

Seeding a Strategic Campaign to Address Root Causes of Inequity in Engineering Education
Dr. Ellen Foster, Purdue University, West Lafayette
Dr. Jennifer Karlin, Minnesota State University, Mankato
Ms. Stephanie Quiles-Ramos, Virginia Tech
Dr. Donna M. Riley, Purdue University, West Lafayette

M615 - WEPAN Business Meetings & Awards
5:30 p.m. - 7:30 p.m., Grand Ballroom, Marriott Crystal Gateway
Sponsor: WEPAN
WEPAN Business Meetings & Awards

M616A - NAMEPA Business Meeting
5:30 p.m. - 6:30 p.m., Skyview, Marriott Crystal Gateway
Sponsor: NAMEPA
NAMEPA Business Meeting

M616B - NAMEPA Networking Dinners & Regional Meetings
7:30 p.m. - 10:30 p.m., Various Locations
Sponsor: NAMEPA
NAMEPA Networking Dinners & Regional Meetings

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**Tuesday, April 16**

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**T18C - Registration**
8:00 a.m. - 5:00 p.m., Ballroom Foyer, Marriott Crystal Gateway  
Sponsor: CoNECD HQ

**T18A - Mother’s Room**
8:00 a.m. - 5:00 p.m., Rosslyn II - Mother’s Room, Marriott Crystal Gateway  
Sponsor: CoNECD HQ

**T18B - Quiet Room**
8:00 a.m. - 5:00 p.m., Rosslyn I - Quiet Room, Marriott Crystal Gateway  
Sponsor: CoNECD HQ

**T118 - Tuesday Breakfast**
8:00 a.m. - 9:00 a.m., Grand Ballroom, Marriott Crystal Gateway  
Sponsor: CoNECD HQ  
Free ticketed event

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**T218B - Tuesday General Session**
9:15 a.m. - 10:15 a.m., Grand Ballroom, Marriott Crystal Gateway  
Sponsor: CoNECD HQ  
Introductions by Bevlee Watford, CoNECD Program Chair  
Cynthia Murphy-Ortega  
Manager - Chevron University Partnerships and Association Relations

Cynthia Murphy-Ortega manages Chevron’s relationships with universities and professional societies and institutes throughout the world. She joined Chevron in 1991 as an engineer with the Richmond Refinery in the San Francisco Bay Area, and held various engineering, maintenance, operations, financial, business planning, and process safety management positions within the refinery.

Cynthia went on to work in the technology arena with the Chevron Energy Technology Company in 1998. She developed and managed Chevron’s technical competency development programs for new hires in refining and exploration and production roles. She also worked in the Process Planning Group and performed process modeling on large-scale projects. In her role as Organizational Capability Manager with the Process, Analytical, and Catalysis Department, she supported technical competency management, staffing/recruitment, new hire and competency development, and business planning.

Cynthia participates on various boards including the Dean’s Advisory Committee, the Chemical Engineering Advisory Committee, the Mechanical and Aerospace Engineering Advisory Committee, the Leadership in Engineering Advancement Diversity and Retention Advisory Committee (LEADR), and the Avenue E Community College Transfer Program Advisory Board at the University of California, Davis; the Broadening Opportunity through Leadership and Diversity Advisory Committee (BOLD) at the University of Colorado, Boulder; the Viterbi Center for Engineering Diversity Industry Advisory Board at the University of Southern California; the Industry Advisory Council for Minority Education at the Massachusetts Institute of Technology; the President’s Council on Diversity, Inclusion, and Access at Colorado School of Mines; the Women’s Engineering Program Advisory Board at Cal Poly San Luis Obispo; the Corporate Membership Council of the American Society of Engineering Education (ASEE); the Inclusion Committee of the National Association of Colleges and Employers (NACE); the Postsecondary Pathways Innovation Lab Co-Chair of STEMConnector; the National Council on STEM and Technology for INROADS; the Women’s Initiatives Committee and the Minority Affairs Committee for the American Institute of Chemical Engineers (AIChE); and the Petroleum Geosciences Advisory Board and Petroleum Engineering Advisory Board at Chulalongkorn University, Thailand. Cynthia holds a bachelor of science degree in chemical engineering from the University of California, Davis.

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**T218A - Tuesday A.M. Networking Break**
10:15 a.m. - 10:30 a.m., Skyview, Marriott Crystal Gateway  
Sponsor: CoNECD HQ

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**T301 - Track: Precollege - Technical Session 7**
10:30 a.m. - 11:10 a.m., Lee, Marriott Crystal Gateway  
Sponsor: Pre-College  
Moderator: Rachelle Reisberg, Northeastern University  
This session discusses a program aimed at empowering and inspiring K-12 female students to pursue STEM majors.

**Femineer™: An Innovative and Engaging Program to Empower K-12 Female Students**
Dr. Kristina Rigden, California State Polytechnic University, Pomona  
Dr. Mariappan Jawaharlal, California State Polytechnic University, Pomona  
Nicole Gutzke, California State Polytechnic University, Pomona

**T304A - Track: Collegiate - Technical Session 7**
10:30 a.m. - 11:10 a.m., Jackson, Marriott Crystal Gateway  
Sponsor: Collegiate  
Moderator: Anne Lucietto, Purdue Polytechnic Institute  
Presentations in this track explore topics pertaining to understanding the experiences of students transitioning from high school to college, student veterans with disabilities in engineering, LGBTQ veterans in engineering, students in early required courses, and the student transfer process. Decreasing attrition for underrepresented populations also will be discussed.

**Toward a Measurement of Co-Curricular Support: Insights from an Exploratory Factor Analysis**
Mrs. Janice Leshay Hall, Virginia Tech  
Ms. Dina Verdín, Purdue University, West Lafayette  
Dr. Walter C. Lee, Virginia Tech  
Dr. David B. Knight, Virginia Tech  
Dr. Allison Godwin, Purdue University, West Lafayette
Conference Sessions

T304C - Track: Collegiate - Technical Session 7
10:30 a.m. - 11:10 a.m., Pentagon A&B, Marriott Crystal Gateway
Sponsor: Collegiate

This session explores engineering admissions policies and their impact on reaching national/ethnic parity.

- Social Belonging Among Engineering Students in Early Required Courses
  - Dr. Jennifer Blue, Miami University
  - Dr. Amy Summerville, Miami University
  - Dr. Brian P. Kirkmeyer, Miami University

T305A - Track: Graduate - Technical Session 7
10:30 a.m. - 11:10 a.m., Madison, Marriott Crystal Gateway
Sponsor: Graduate Education
Moderator: Margaret Pinnell, University of Dayton

This session discusses experiences faced by doctoral students in engineering and computing programs and examines research-based institutional change strategies to improve the persistence of graduate students in STEM disciplines.

- An Institutional Transformation Model to Increase Minority STEM Doctoral Student Success
  - Dr. Marcia Gumpertz, North Carolina State University
  - Dr. Rebecca Brent, Education Designs, Inc.
  - Dr. C. Dean Campbell, North Carolina A&T State University
  - Dr. Maureen Grasso, North Carolina A&T State University
  - Dr. Yvette Maria Huet, University of North Carolina, Charlotte
  - Dr. Keith A. Schimmel P.E., North Carolina A&T State University

T308A - Track: Learning Spaces, Pedagogy, & Curriculum Design Technical Session 7
10:30 a.m. - 11:15 a.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Moderator: Roberta Rincon, Society of Women Engineers

Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.

- Identifying a “Starting Point” for Diversity and Inclusion Initiatives
  - Dr. Mahauganee Dawn Bonds, Georgia Institute of Technology
  - Dr. Veronica van Montfrans, Georgia Institute of Technology
  - Prof. Joseph M. LeDoux, Georgia Institute of Technology
  - Dr. Wendy C. Newstetter, Georgia Institute of Technology

T313A - Track: Special Topic - Identity Technical Session 7
10:30 a.m. - 11:10 a.m., Salon E&D, Marriott Crystal Gateway
Sponsor: Special Topic: Identity
Moderator: Lynne Molter, Swarthmore College

Presentations in this track explore identity through a variety of voices and experiences.

- Black Men in the Making: Engaging in Maker Spaces Promotes Agency and Identity for Black Males in Engineering
  - Mr. Michael Lorenzo Greene, Arizona State University, Polytechnic campus
  - Dr. Nadia N. Kellam, Arizona State University
  - Dr. Brooke Charae Coley, Arizona State University, Polytechnic campus

T301B - Track: Pre-College - Technical Session 8
11:20 a.m. - 12:00 p.m., Lee, Marriott Crystal Gateway
Sponsor: Pre-College
Moderator: Ahmed Elsawy, Tennessee Technological University

Presentations in this track discuss programs aimed at empowering and inspiring K-12 female students to pursue STEM majors.

- Offering Multiple STEM Outreach Touchpoints to Middle School Girls is Associated with Engineering and University Recruitment Outcomes
  - Ms. Suzanne Sontgerath, Worcester Polytechnic Institute
  - Dr. Chrysanthe Demetry, Worcester Polytechnic Institute

T304B - Track: Collegiate - Technical Session 8
11:20 a.m. - 12:00 p.m., Jackson, Marriott Crystal Gateway
Sponsor: Collegiate

This session discusses marketing efforts aimed at improving the enrollment of underrepresented populations in engineering.

- Texas A&M Engineering Academies: Impacts of Effective Marketing
  - Jon Carter Buchanan, Texas A&M University
  - Ms. Amy Suzan Klinkovsky, Texas A&M University

T305B - Track: Graduate - Technical Session 8
11:20 a.m. - 12:00 p.m., Madison, Marriott Crystal Gateway
Sponsor: Graduate Education

This session discusses some of the experiences faced by doctoral students in engineering and computing programs and research-based institutional change strategies to improve the persistence of graduate students in STEM disciplines.

- Too Black to be a Woman and Too Much Woman to be a Man: Best Practices from Black Women Persisting through Doctoral Engineering and Computing Programs
  - Dr. Sharmnia Artis, University of California, Irvine
  - Dr. Stacie LeSure, Engineers for Equity
  - Dr. Marjorie C. Shavers, Heidelberg University
**T308B - Track Learning Spaces, Pedagogy & Curriculum Design Technical Session 8**  
11:20 a.m. - 12:00 p.m., Jefferson, Marriott Crystal Gateway  
**Sponsor: Learning Spaces, Pedagogy & Curriculum Design**  
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.  
ADVANCE: A Community College and University Partnership Model for Expanding and Diversifying the Talent Pipeline to the Jobs of Tomorrow  
Dr. Kenneth S. Ball P.E., George Mason University  
Dr. Oscar Barton Jr. P.E., George Mason University  
Dr. Sharon A. Caraballo, George Mason University  
Dr. Liza Wilson Durant, George Mason University  
Dr. Michelle Marks, George Mason University  
Ms. Angelina Jarrouj, George Mason University  
Ms. Robin Rose Parker

**T313B - Track: Special Topic - Identity Technical Session 8**  
11:20 a.m. - 12:00 p.m., Salon E&D, Marriott Crystal Gateway  
**Sponsor: Special Topic: Identity**  
**Moderator: Efren Dominguez, University of Texas, Austin**  
Presentations in this track explore identity through a variety of voices and experiences.  
To Be or Not To Be: A Dialogic Discussion of Two Researchers’ Hidden and Transitioning Identities  
Dr. Stephen Secules, Purdue University, West Lafayette  
Dr. Cassandra J. Groen-McCall, Virginia Tech

**T318 - Tuesday Lunch**  
12:15 p.m. - 1:30 p.m., Grand Ballroom, Marriott Crystal Gateway  
**Sponsor: CoNECD HQ**  
Featuring remarks from ASEE Women in Engineering Division past chair, Dr. Beena Sukumaran  
Keynote Speaker:  
Sandra Begay, Sandia National Laboratories

Sandra Begay is a principal member of the technical staff at Sandia National Laboratories, where she leads Sandia’s technical efforts to assist American Indian and Alaska Native tribes with their renewable energy developments. She manages and supervises Sandia’s Indian Energy Internship Program for the Department of Energy’s Office of Indian Energy.

Sandra received a B.S. in civil engineering from the University of New Mexico. She worked at Lawrence Livermore National Laboratories before earning an M.S. in structural engineering from Stanford University. She has been with Sandia for 26 years.

A former University of New Mexico Regent/Trustee, Sandra continues to serve UNM through Board service to STC.UNM, the Alumni Association, and as Civil Engineering Adviser.

A recent recipient of the American Indian Science and Engineering Society’s Life-time Achievement Award, Sandra has been recognized with the University of New Mexico’s 2007 Zia Alumnus Award, the 2005 UNM School of Engineering Distinguished Alumnus Award, and the Stanford University 2000 Multicultural Alumni of the Year Award. She was also selected as a recipient of the Governor’s Award for Outstanding Women from the New Mexico Commission on the Status of Women.

Sandra and her work is recognized in the book *Changing Our World: True Stories of Women Engineers*. The “Women in Power” chapter describes her effort to provide electricity through solar panels and other alternative energy solutions to hundreds of remote tribal members on the Navajo Reservation.

Free ticketed event

**T404 - Track: Collegiate - Technical Session 9**  
1:30 p.m. - 2:10 p.m., Jackson, Marriott Crystal Gateway  
**Sponsor: Collegiate**  
**Moderator: Shannon Stefl, Clemson University**  
This session explores the experiences of transfer students.  
Unnecessarily Complicated: An Examination of Information Asymmetry in the Transfer Process  
Dustin M. Grote, Virginia Tech  
Dr. Walter C. Lee, Virginia Tech  
Dr. David B. Knight, Virginia Tech  
Abbey Rowe Erwin, Virginia Tech  
Dr. Bevlee A. Watford P.E., Virginia Tech

**T405 - Track: Graduate - Technical Session 9**  
1:30 p.m. - 2:10 p.m., Madison, Marriott Crystal Gateway  
**Sponsor: Graduate Education**  
**Moderator: Maya Rucks, Clemson University**  
This session discusses the experiences of international doctoral students in engineering and computing programs.  
Understanding International Engineering Doctoral Students’ Sense of Belonging Through Their Interpersonal Interactions in the Academic Community  
Ms. Eunsil Lee, Arizona State University  
Dr. Jennifer M. Bekki, Arizona State University  
Dr. Adam R. Carberry, Arizona State University  
Dr. Nadia N. Kellam, Arizona State University

**T407 - Track: Special Topic - Safe Zone Session 1**  
1:30 p.m. - 3:00 p.m., Grand Ballroom, Marriott Crystal Gateway  
**Sponsor: Special Topic: Safe Zone**  
Safe Zone Level I Ally Training (90-minute Workshop)  
Dr. Stephanie Farrell, Rowan University  
Dr. Robyn Sandekian, University of Colorado, Boulder  
Dr. Donna M. Riley, Purdue University, West Lafayette  
Mr. Christopher Alexander Carr, National Society of Black Engineers

Schedule subject to change: Please go to [www.asee.org/icp/CoNECD](http://www.asee.org/icp/CoNECD) for up to date information.
T408 - Track: Learning Spaces, Pedagogy & Curriculum Design Technical Session 9
1:30 p.m. - 2:10 p.m., Pentagon A&B, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.

An Asset Approach to Broadening Participation: Tips and Tools for Strategic Planning
Dr. Adrienne Ann Smith, Cynosure Consulting
Dr. Rebecca A. Zulli, Cynosure Consulting

T408B - Track: Learning Spaces, Pedagogy & Curriculum Design Technical Session 9
1:30 p.m. - 2:10 p.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Safe Zone Deep Dive into Supporting Transgender Students and Colleagues (90-minute Workshop)
Dr. Stephanie Farrell, Rowan University
Dr. Kyle F. Trenshaw, University of Rochester
Dr. Robyn Sandekian, University of Colorado, Boulder

T413 - Track: Special Topic - Identity Technical Session 9
1:30 p.m. - 2:10 p.m., Salon E&D, Marriott Crystal Gateway
Sponsor: Special Topic: Identity
Presentations in this track explore identity through a variety of voices and experiences.

A Systematic Review of the Intersections of Engineering Identity and Financial Need Literature
Maria Luz Espino M.A., Iowa State University
Dr. Sarah Rodriguez, Iowa State University

T501A - Track: Pre-College - Technical Session 10
2:20 p.m. - 3:00 p.m., Lee, Marriott Crystal Gateway
Sponsor: Pre-College
Presentations in this track discuss programs aimed at empowering and inspiring K-12 female students to pursue STEM majors.

Critical GPA and Standardized Test Score Admission Thresholds
Dr. Beth A. Myers, University of Colorado, Boulder
Dr. Angela R. Bielefeldt, University of Colorado, Boulder
Dr. Jacquelyn F. Sullivan, University of Colorado, Boulder

T504A - Track: Collegiate - Technical Session 10
2:20 p.m. - 3:00 p.m., Jackson, Marriott Crystal Gateway
Sponsor: Collegiate
This session explores the experiences of students transitioning from high school to college.

Work-In-Progress: Applying Transition Theory to an Exploration of the High-School-to-College Transition Experiences of Students from Underrepresented Ethnic/Racial Groups
Ms. Karis Boyd-Sinkler, Virginia Tech
Miss Raeven Carmelita Waters
Miss Yasmine Yunus Sikder
Ms. Ashley R. Taylor, Virginia Tech
Ms. Mayra S. Artiles, Virginia Tech
Dr. Alexandra Coso Strong, Florida International University
Dr. Walter C. Lee, Virginia Tech

T505 - Track: Graduate - Technical Session 10
2:20 p.m. - 3:00 p.m., Madison, Marriott Crystal Gateway
Sponsor: Graduate Education
This session discusses some of the experiences faced by doctoral students in engineering and computing programs and research-based institutional change strategies to improve the persistence of graduate students in STEM disciplines.

A Bridge to the Ph.D. for URM Students
Dr. Ashleigh Renee Wright, North Carolina State University
Dr. Rebecca Brent, Education Designs, Inc.
Prof. Elizabeth C. Dickey, North Carolina State University
Dr. Kimberly S. Weems, North Carolina Central University
Brian J. Reich, North Carolina State University
Dr. Caesar R. Jackson, North Carolina Central University
T508A - Track: Learning Spaces, Pedagogy & Curriculum Design Technical Session 10
2:20 p.m. - 3:00 p.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.

ADVANCE Women's Leadership at the University of Delaware
Dr. Heather Doty, University of Delaware
Dr. Shawna Vican, University of Delaware
Dr. Robin Andreasen, University of Delaware
Dr. Sue Giancola, University of Delaware

T508B - Track: Learning Spaces, Pedagogy & Curriculum Design Technical Session 10
2:20 p.m. - 3:00 p.m., Pentagon A&B, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.

Sustainable Research Pathways: Collaborations Across Communities to Diversify the National Laboratory Workforce
Dr. Mary Ann E. Leung, Sustainable Horizons Institute
Dr. Silvia Crivelli

T513 - Track: Special Topics - Identity Technical Session 10
2:20 p.m. - 3:00 p.m., Salon E&D, Marriott Crystal Gateway
Sponsor: Special Topic: Identity
Presentations in this track explore identity through a variety of voices and experiences.

Exploring Transgender and Gender Nonconforming Engineering Undergraduate Experiences through Autoethnography
Andrea Haverkamp, Oregon State University
Ms. Ava Butler, Oregon State University
Ms. Naya Selene Pelzl
Michelle Kay Bothwell, Oregon State University
Dr. Devlin Montfort, Oregon State University
Dr. Qwo-Li Driskill, Oregon State University

T508C - Track: Learning Spaces, Pedagogy, and Curriculum - Technical Session 11
3:45 p.m. - 4:25 p.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.

A First-Year Engineering Spatial Skills Workshop: Implementation, Effectiveness, and Gender Differences
Dr. Maxine Fontaine, Stevens Institute of Technology
Dr. Alexander John De Rosa, Stevens Institute of Technology
Ms. Susan Staffin Metz, Stevens Institute of Technology

T518 - Tuesday P.M. Break
3:00 p.m. - 3:30 p.m., Skyview, Marriott Crystal Gateway
Sponsor: CoNECD HQ
T508D - Track: Learning Spaces, Pedagogy & Curriculum - Technical Session 11
3:45 p.m. - 4:20 p.m., Pentagon A&B, Marriott Crystal Gateway
**Sponsor:** Learning Spaces, Pedagogy & Curriculum Design
Presentations in this track include a variety of topics related to learning spaces, pedagogy, and curriculum design.

**Overview of Policies and Programs to Retain Black Students in Engineering**
Dr. Catherine E. Brawner, Research Triangle Educational Consultants
Dr. Catherine Mobley, Clemson University
Dr. Rebecca Brent, Education Designs, Inc.
Dr. Marisa K. Orr, Clemson University
Maya Rucks, Clemson University
Dr. Cindy Waters, Naval Surface Warfare Center

T604A - Track: Collegiate - Technical Session 12
4:35 p.m. - 5:15 p.m., Jackson, Marriott Crystal Gateway
**Sponsor:** Collegiate
This session discusses LGBTQ student veterans in engineering.

**Exploring Narratives of LGBTQ Student Veterans in Engineering**
Dr. Susan M. Lord, University of San Diego
Prof. Michelle M. Camacho, University of San Diego
Dr. Catherine Mobley, Clemson University
Dr. Catherine E. Brawner, Research Triangle Educational Consultants
Dr. Joyce B. Main, Purdue University, West Lafayette

T604B - Track: Collegiate Technical Session 12
4:35 p.m. - 5:15 p.m., Lee, Marriott Crystal Gateway
**Sponsor:** Collegiate
This session explores issues pertaining to veterans with disabilities in engineering.

**Exploring the Unique Skills and Challenges that Veterans with Disabilities Bring to College: A Qualitative Study in Engineering**
Mr. Michael Scott Sheppard Jr., Arizona State University
Dr. Nadia N. Kellam, Arizona State University
Dr. Samantha Ruth Brunhaver, Arizona State University

T605 - Track: Graduate - Technical Session 12
4:35 p.m. - 5:15 p.m., Madison, Marriott Crystal Gateway
**Sponsor:** Graduate Education
This session discusses some of the experiences faced by doctoral students in engineering and computing programs and research-based institutional change strategies to improve the persistence of graduate students in STEM disciplines.

**Intersectional Perspectives: Interpersonal Contributors to Moments of Doubt for Graduate Women of Color in STEM**
Dr. Kerrie G. Wilkins-Yel, Indiana University
Prof. Bianca L. Bernstein, Arizona State University
Dr. Jennifer M. Bekki, Arizona State University
Miss Amanda James Reed

T613 - Track: Special Topic - Identity Technical Session 12
4:35 p.m. - 5:15 p.m., Salon E&D, Marriott Crystal Gateway
**Sponsor:** Special Topic: Identity
Presentations in this track explore identity through a variety of voices and experiences.

**Building Community Through Professional Development: The LATTICE Program**
Dr. Cara Margherio, University of Washington
Dr. Coleen Carrigan, California Polytechnic State University, San Luis Obispo
Dr. Joyce Yen, University of Washington
Dr. Marie Claire Horner-Devine
Prof. Eve A. Riskin, University of Washington
Julie Ivy, North Carolina State University
Dr. Christine S. Grant, North Carolina State University

T718 - Tuesday Awards Banquet & Dance Party
6:00 p.m. - 11:30 p.m., Grand Ballroom, Marriott Crystal Gateway
**Sponsor:** CoNECD HQ
Hosted by Organizing Committee Chair Bevlee Watford, ASEE Past President
Free ticketed event
SAVE THE DATE
JUNE 15–19, 2019

MAKE PLANS TO ATTEND
Visit the Online Session Locator at www.asee.org/osl

TAMPA CONVENTION CENTER | TAMPA, FL
W18C - Registration
8:00 a.m. - 1:00 p.m., Ballroom Foyer, Marriott Crystal Gateway
Sponsor: CoNECD HQ

W18A - Mother’s Room
8:00 a.m. - 12:00 p.m., Rosslyn II, Marriott Crystal Gateway
Sponsor: CoNECD HQ

W18B - Quiet Room
8:00 a.m. - 12:00 p.m., Rosslyn I, Marriott Crystal Gateway
Sponsor: CoNECD HQ

W118 - Wednesday Breakfast
8:00 a.m. - 9:00 a.m., Grand Ballroom, Marriott Crystal Gateway
Sponsor: CoNECD HQ
Free ticketed event

W218B - Wednesday General Session
9:15 a.m. - 10:15 a.m., Grand Ballroom, Marriott Crystal Gateway
Sponsor: CoNECD HQ
Introductions by Rochelle Williams, Chair of the Minorities in Engineering Division, ASEE

Featuring Keynote Speaker
Claude M. Steele
Professor of Psychology
Stanford University
Stereotype Threat and Identity Threat
The Science of a Diverse Community

Drawing on stereotype threat and social identity threat research, this talk will address the why, what, and how of diverse learning communities: Why they are important, a working hypothesis about what is critical to their success, and what research reveals about how to achieve that success. The talk’s practical aim is to identify features of diverse learning communities—schools, universities, and academic disciplines—that, while good for all students, are especially helpful for minority students generally and for women in STEM fields. The talk will also explore the psychological significance of community and its role in learning. Social psychologist Claude M. Steele, author of *Whistling Vivaldi and Other Clues to How Stereotypes Affect Us*, is best known for his research on stereotype threat and its application to minority student academic performance. His earlier work dealt with research on the self, including the role of self-regulation in addictive behaviors. He has served in several major academic leadership positions, including as the executive vice chancellor and provost at UC Berkeley, the I. James Quillen Dean for the School of Education at Stanford University, and provost of Columbia University. Past roles also include serving as president of the Society for Personality and Social Psychology, as president of the Western Psychological Association, and as a member of the Board of Directors of the American Psychological Society. He holds a B.A. in psychology from Hiram College, an M.A. in social psychology from Ohio State University, and a Ph.D. in social psychology and statistical psychology from Ohio State University. He is an elected member of the American Academy of Arts and Sciences and the National Academy of Sciences.

W218A - Wednesday A.M. Networking Break
10:15 a.m. - 10:30 a.m., Skyview, Marriott Crystal Gateway
Sponsor: CoNECD HQ

W302A - Track: Special Topic - Student Organizations Technical Session 13
10:30 a.m. - 11:10 a.m., Madison, Marriott Crystal Gateway
Sponsor: Special Topic: Student Organizations
This session explores insights into the role of student organizations in the engineering education experience and implications for inclusion.

Integration Outcomes and Cultural Capital in a NSBE Chapter
Tasha Zephirin, Purdue University, West Lafayette

W304A - Track: Collegiate - Technical Session 13
10:30 a.m. - 11:10 a.m., Jackson, Marriott Crystal Gateway
Sponsor: Collegiate
This session explores engineering admission policies and their impact on reaching national racial/ethnic parity.

Quantifying the Pool of Underrepresented Minority Students for Engineering Studies
Dr. Beth A. Myers, University of Colorado, Boulder
Dr. Angela R. Bielefeldt, University of Colorado, Boulder
Dr. Jacquelyn F. Sullivan, University of Colorado Boulder

W307 - Special Topic: Safe Zone Session 2
10:30 a.m. - 12:00 p.m., Grand Ballroom, Marriott Crystal Gateway
Sponsor: Special Topic: Safe Zone
Special Topic: Safe Zone Technical Session 13
Safe Zone Level 2 Ally Training (90-minute Workshop)
Dr. Stephanie Farrell, Rowan University
Dr. Robyn Sandekian, University of Colorado, Boulder
Mr. Tiago R. Forin, Rowan University
Dr. Alisha L. Sarang-Siemienski, Franklin W. Olin College of Engineering
W308 - Track: Learning Spaces, Pedagogy & Curriculum Design Technical Session 13
10:30 a.m. - 11:10 a.m., Jefferson, Marriott Crystal Gateway
Sponsor: Learning Spaces, Pedagogy & Curriculum Design
In this session, participants will learn about the extent that viewing personal information about workshop leaders affects students’ likelihood to attend workshops.

Leaders Like Me
Dr. Kyle F. Trenshaw, University of Rochester
Dr. Elif Miskioglu, Bucknell University
Philip Asare, Bucknell University
Nir Aish

W310A - Track: Special Topics - Evaluation & Grant Writing Technical Session 13
10:30 a.m. - 11:10 a.m., Lee, Marriott Crystal Gateway
Sponsor: Special Topic: Evaluation & Grant Writing
This interactive session will guide attendees through the use of an evaluator’s lens on various diversity-, equity-, and inclusion-focused projects. In addition, attendees will be able to learn about effective proposal writing strategies from two NSF program directors.

Demystifying Evaluation: Meet Your New Best Friend in Change-Making
Dr. Elizabeth Litzler, University of Washington
Dr. Cara Margherio, University of Washington
Dr. Emily Alicia Affolter, University of Washington
Dr. Emily Knaphus-Soran, University of Washington

W313A - Track: Special Topic - Identity Technical Session 13
10:30 a.m. - 11:10 a.m., Salon E&D, Marriott Crystal Gateway
Sponsor: Special Topic: Identity
Survey Analysis of Student Experiences for Underrepresented Populations in Engineering and Computer Science
Dr. J. McLean Slaughter, Seattle University
Dr. Agnieszka Miguel, Seattle University
Dr. Mara Rempe, Seattle University
Dr. Katie Kuder P.E., Seattle University

W313B - Track: Special Topic - Identity Technical Session 13
10:30 a.m. - 11:10 a.m., Salon G&F, Marriott Crystal Gateway
Sponsor: Special Topic: Identity
Race, Veteran, and Engineering Identities among Black Male Student Veterans
Dr. Catherine E. Bravner, Research Triangle Educational Consultants
Dr. Susan M. Lord, University of San Diego
Dr. Catherine Mobley, Clemson University
Prof. Michelle M. Camacho, University of San Diego
Dr. Joyce B. Main, Purdue University, West Lafayette

W302B - Track: Special Topic - Student Organizations Technical Session 14
11:20 a.m. - 12:00 p.m., Madison, Marriott Crystal Gateway
Sponsor: Special Topic: Student Organizations
This session discusses the results of an implicit bias workshop for undergraduate engineering students who participate in engineering student organizations.

Helping Engineering Student Organization Members “Break the Bias Habit”
Dr. Jennifer Sheridan, University of Wisconsin, Madison
Dr. Manuela Romero, University of Wisconsin, Madison
Dr. Mary E. Fitzpatrick, University of Wisconsin, Madison
Christine Fabian Bell, University of Wisconsin-Madison
Dr. Eve Fine, University of Wisconsin, Madison
Carmen Juniper Neimeko

W310B - Track: Special Topic - Evaluation & Grant Writing Technical Session 14
11:20 a.m. - 12:00 p.m., Lee, Marriott Crystal Gateway
Sponsor: Special Topic: Evaluation & Grant Writing
This interactive session will guide attendees through the use of an evaluator’s lens on various diversity-, equity-, and inclusion-focused projects. In addition, attendees will be able to learn about effective proposal writing strategies from two NSF program directors.

Writing a Successful Engineering Education Proposal for the National Science Foundation: An Interactive Workshop
Dr. Julie P. Martin, National Science Foundation
Dr. Paige E. Smith, National Science Foundation

W312 - Track: Special Topic - Intelligence Technical Session 14
11:20 a.m. - 12:00 p.m., Pentagon A&B, Marriott Crystal Gateway
Sponsor: Special Topic: Intelligence
This session explores the explicit ways that the construction of intelligence has on implications for the lack of diversity in engineering.

Intelligence and Smartness in Engineering: Gatekeepers to Diversity and Inclusion
Turhan Kendall Carroll, Ohio State University
Amy Kramer P.E., Ohio State University
Dr. Emily Dringenberg, Ohio State University

W318 - Wednesday Closing Session
12:15 p.m. - 1:00 p.m., Grand Ballroom, Marriott Crystal Gateway
Sponsor: CoNECD HQ
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<tr>
<td>W318</td>
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<td>W304A</td>
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</table>

# Sessions by Track

## CoNECD HQ
- U18A: Mother's Room
- U18B: Quiet Room
- U18C: Registration Open
- U418: Sunday Reception
- M18C: Registration Open
- M118: Monday Breakfast
- M18A: Mother's Room
- M18B: Quiet Room
- M218B: Monday General Session
- M218A: Monday A.M. Networking Break
- M318A: Monday Lunch & WEPAN Hi Five! Presentations
- M518: Monday P.M. Networking Break
- T118: Tuesday Breakfast
- T18A: Mother's Room
- T18B: Quiet Room
- T18C: Registration Open
- T218B: Tuesday General Session
- T218A: Tuesday A.M. Networking Break
- T318: Tuesday Lunch
- T518: Tuesday P.M. Break
- T718: Tuesday Awards Banquet & Dance Party
- W118: Wednesday Breakfast
- W18A: Mother's Room
- W18B: Quiet Room
- W18C: Registration Open
- W218B: Wednesday General Session
- W218A: Wednesday A.M. Networking Break
- W318: Wednesday Closing Session

## Faculty
- M303A: Track: Faculty - Technical Session 1
- M303B: Track: Faculty - Technical Session 2
- M403: Track: Faculty - Technical Session 3
- M503B: Track: Faculty - Technical Session 4
- M503A: Track: Faculty - Technical Session 5
- M603: Track: Faculty - Technical Session 6

## Graduate Education
- T305A: Track: Graduate - Technical Session 7
- T305B: Track: Graduate - Technical Session 8
- T405: Track: Graduate - Technical Session 9
- T505: Track: Graduate - Technical Session 10
- T605: Track: Graduate - Technical Session 12

## Learning Spaces, Pedagogy & Curriculum Design
- M308B: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 1
- M308: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 2
- M408: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 3
- M508A: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 4
- M508B: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 5
- M608: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 6
- T308A: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 7
- T308B: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 8
- T408: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 9
- T408B: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 9
- T508A: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 10
- T508B: Track: Learning Spaces, Pedagogy & Curriculum Design - Technical Session 10
- T508C: Track: Learning Spaces, Pedagogy & Curriculum - Technical Session 11
- T508D: Track: Learning Spaces, Pedagogy & Curriculum - Technical Session 11
### NAMEPA

<table>
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<tr>
<th>Session Code</th>
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<tbody>
<tr>
<td>U16A</td>
<td>NAMEPA Workshop: Are Your Policies Creating an Institutional Barrier for Equity? Identifying and Removing Barriers to Equity and Creating a Business Case for Policy Change</td>
</tr>
<tr>
<td>U16B</td>
<td>NAMEPA and WEPAN Workshop: Minorities And Higher Education: Exploring Experiences Of Women</td>
</tr>
<tr>
<td>U416</td>
<td>NAMEPA Workshop: Escaping The Valley Of Death: Research To Practice And Practice To Research In Diversity, Equity, And Inclusion</td>
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<tr>
<td>M616A</td>
<td>NAMEPA Business Meeting</td>
</tr>
<tr>
<td>M616B</td>
<td>NAMEPA Networking Dinners &amp; Regional Meetings</td>
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### Pre-College

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<tr>
<td>M301A</td>
<td>Track: Pre-college - Technical Session 1</td>
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<td>M401</td>
<td>Track: Pre-college - Technical Session 3</td>
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<tr>
<td>M501B</td>
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<td>M501A</td>
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<td>M601</td>
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### Special Topic: Identity

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<td>T313B</td>
<td>Track: Special Topic - Identity Technical Session 8</td>
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<tr>
<td>T413</td>
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<td>T513</td>
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<tr>
<td>T613</td>
<td>Track: Special Topic - Identity Technical Session 12</td>
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<tr>
<td>W313A</td>
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<tr>
<td>W313B</td>
<td>Track: Special Topic - Identity Technical Session 13</td>
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### Special Topic: Intelligence

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<th>Session Title</th>
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<tr>
<td>W312</td>
<td>Track: Special Topic - Intelligence Technical Session 14</td>
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### Special Topic: Safe Zone

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<td>W307</td>
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### Special Topic: Social Justice & Reform

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<td>Track: Social Justice and Reform Technical Session 1</td>
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<td>M317B</td>
<td>Track: Social Justice and Reform Technical Session 2</td>
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<td>M417</td>
<td>Track: Social Justice and Reform Technical Session 3</td>
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<td>M517</td>
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### Special Topic: Student Organizations

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<td>W302A</td>
<td>Track: Special Topic - Student Organizations Technical Session 13</td>
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<td>W302B</td>
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### Special Topic: Computing & Technology

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<td>M306A</td>
<td>Track: Special Topic - Computing &amp; Technology Technical Session 1</td>
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<tr>
<td>M306B</td>
<td>Track: Special Topic - Computing &amp; Technology Technical Session 2</td>
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<td>M406</td>
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<td>M506</td>
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### Special Topic: Evaluation & Grant Writing

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<tr>
<td>W310B</td>
<td>Track: Special Topic - Evaluation &amp; Grant Writing Technical Session 14</td>
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### WEPAN

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<tr>
<td>U15A</td>
<td>WEPAN Workshop: Men Allies For Gender Equity</td>
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<tr>
<td>U16B</td>
<td>NAMEPA and WEPAN Workshop: Minorities And Higher Education: Exploring Experiences Of Women</td>
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<tr>
<td>U15B</td>
<td>WEPAN Workshop: Navigating Conflict Effectively</td>
</tr>
<tr>
<td>U15C</td>
<td>WEPAN Workshop: A Director’s Guide To Creating And Sustaining Successful Women In Engineering Programs</td>
</tr>
<tr>
<td>M615</td>
<td>WEPAN Business Meetings &amp; Awards</td>
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