Conference for Industry and Education Collaboration
Hyatt Regency Austin
February 3-5, 2016

Pre-Conference Events

Monday, February 1

8:30 am – 12:00 pm
CIEC 101 CIEC Executive Board Meeting – Texas 5
The CIEC Board will meet to discuss the 2016 conference and make plans for the 2017 conference to be held in Jacksonville, Florida.
Chair: Paul Jewell, Iowa State University

8:30 am – 5:00 pm
CPDD 104 IACEE Executive Committee Meeting – Texas 6
Chair: Kim Scalzo, State University of New York

12:00 pm – 1:00 pm
CIEC 111 PICV Luncheon Meeting – Hill Country A & B
Chair: Lea-Ann Morton, Missouri University of Science and Technology

1:00 pm – 5:00 pm
CEED 112 CIEED Board Meeting – Texas 7
Chair: Gayle Elliott, University of Cincinnati

3:00 pm – 5:00 pm
CIEC 121 CIEC Management Team Meeting – Hill Country C & D
Chair: Mark Schuver/Mitch Springer, Purdue University

6:00 pm – 8:00 pm
CIEC 131 CIEC General Conference Chair Reception – Foothills 1
Invitation Only
Chair: Mark Schuver/Mitch Springer, Purdue University
Tuesday, February 2

8:30 am – 5:00 pm  
CIEC 211 Registration – Texas Foyer  
Mike Mathews, Registrar

8:00 am – 4:30 pm  
CMC/CIPD 213 CMC Collaborative Workshop – Invite Only – Texas 6  
Chair: Paul Jones, ASEE Corporate Member Council

8:30 am – 12:00 pm  
CPDD 224 CPDD Board Meeting – Texas 5  
Chair: Paul Jewell, Iowa State University

8:00 am – 12:00 pm  
CEED 222 CEED Board Meeting – Texas 7  
Chair: Gayle Elliott, University of Cincinnati

1:00 pm – 4:30 pm  

Ongoing professional development of engineering workforce continues to be a necessity for global organizations. However, for continuing education administrators, building and marketing programs to international organizations requires knowledge of global branding and international business practices, and strategies in forming international partnerships. This workshop will lay out the step-by-step process for building and sustaining international university-to-business continuing engineering education (CEE) programs and partnerships with special focus to marketing and branding. In the second half of the workshop, participants will work on problems on specific international CEE projects and present the solutions. By completing an extra assignment, you may also earn a badge for IACEE’s CEE Manager’s Certificate Program. Tickets Required: $75

Moderator: Octavio Heredia, Arizona State University  
Workshop Facilitators: Soma Chakrabarti, University of Delaware, Zachary Gredlics, University of Kansas, Pat Hall, The University of Tulsa
1:00 pm – 4:30 pm
**CEED 212 CEED Workshop: Harnessing Entrepreneurship and Value-creation Models to Innovate Experiential Education Programs – Texas 2 & 3**

Are you interested in learning how to be more innovative in offering experiential education programs at your university? This workshop, “Harnessing entrepreneurship and value-creation models to innovate experiential education programs” is for you. Austin was recently ranked as the #1 city in the U.S. for startups by the Kauffman Foundation.

Entrepreneurial mindsets are drivers in an ecosystem which creates innovation. This workshop will build upon the conference theme, with a local flare, and apply Kauffman value-creation models to identify ways to innovate experiential education programs in higher education. This workshop will take participants through a hands-on process to apply tools, which can create a culture of resource-light, customer-centric, and iterative innovation relevant to their environments.

Michael Manning is an innovative and highly regarded educator and administrator who uses his experience as a corporate executive, entrepreneur, and consultant to develop and teach courses that enrich the classroom experience for students as well as connect executives and serial entrepreneurs to the Price College of Business at the University of Oklahoma, and to Arizona State University through the President’s office.
**Presenter:** Michael Manning, MBA, Program Manager, Entrepreneurship and Innovation Arizona State University

6:00 pm – 6:45 pm
**CIEC 221 New Attendees Get Together: CIEC 101 – Texas 1**

Please plan to attend this informal welcome/networking event for new conference attendees.
**Chair:** Mark Schuver/Mitch Springer, Purdue University

7:00 pm
**CIEC 231 CIEC Opening Reception: Denim and Diamonds – Zilker 1 & 2**

Join us for a wonderful opportunity to reconnect with our division colleagues. This is always a highly anticipated event and gets the conference off to a great start. A flyer with additional information will be provided to registrants.
**Co-Chairs:** Nancy Kruse & Pat Hall, University of Tulsa
Wednesday, February 3rd

7:30 am – 5:00 pm
CIEC 371 Registration – Texas Foyer
Mike Mathews, Registrar

7:30 am – 8:45 am
CIEC 301 All Conference Continental Breakfast – Marker 10 Foyer/Patio
Chair: Mark Schuver/Mitch Springer, Purdue University

7:30 am – 9:30 am
CIEC 311 Companions Breakfast – Southwest Bistro
All registered companions are invited to breakfast in the Southwest Bistro on the second floor. Information about the tours and events for companions will be discussed.
Chair: Linda Schuver

9:00 am – 10:30 am
CIEC 321 CIEC Welcome and Opening Plenary – Texas Ballroom
Moderator: Sharon L. Wood, Dean of the Cockrell School of Engineering at the University of Texas at Austin.
Speaker: Bob Metcalfe is Professor of Innovation in the Cockrell School of Engineering at The University of Texas at Austin, and Murchison Fellow of Free Enterprise. He invented Ethernet in 1973 and founded 3Com Corporation in 1979. He is a member of the National Academy of Engineering and received the National Medal of Technology for his leadership in inventing, standardizing, and commercializing Ethernet. Further presentation information will be provided to conference registrants.

10:30 am – 10:55 am
CIEC 331 Refreshment Break – Texas Foyer

10:30 am – 1:30 pm
CIEC 341 Companions Tour: Austin Eats
Austin is home to over 2,000 food truck vendors, offering cuisine from some of Austin’s finest and quirkiest eateries. What started in the early 1990’s as a humble little hot-dog stand has blossomed into a city wide movement. We will have an opportunity to experience this delightful trend on the Austin Eats’ Best of Austin Food Truck Tour. Our tour will include a visit to one of Austin’s top ranked BBQ places, a chance to sample top chef’s creations from many of the most popular fun food trucks, and a desert stop at one of the many famous Austin bakeries. The food-court trailer parks are an Austin phenomenon and quite a creative dining experience.
Ticketed participants should meet in the main lobby of hotel at 10:15
Chair: Linda Schuver
11:00 am – 12:30 pm
CEED 312 Utilizing University and Industry Resources to Facilitate International Experiential Learning-Hill Country C & D
Come discuss the processes and design strategies necessary in creating study abroad courses for engineering students in both mandatory and optional cooperative education programs. Come learn about the successes of cooperative education students working with industry on cutting-edge projects, have onsite visits with international companies, and interface with executives and key managers on a personal level
Moderator: Kyle Liechty, Michigan State University
Presenters: Jennifer Evanuik, Georgia Institute of Technology
           Gayle Elliott, University of Cincinnati
           Maureen Schomaker, University of Cincinnati
           Ramesh Yerraballi, UT Austin

11:00 am – 12:30 pm
CIPD 313 Comparison of IP Policies of Several Universities – Texas 5
The IP policies currently in existence at several universities that are similar in size, research portfolio, and similar missions are presented and also compared with some universities that have been at the forefront of making changes in these policies. We will present our initial findings of the IP policies of various universities and put that in perspective of the changing landscape of university-industry collaborations.
Moderator: Lori Glover, MIT
Presenter: Ranji Vaidyanathan, Oklahoma State University

Creating an Effective University/Corporate Partnership
An effective university/corporate partnership requires effective communication, clear expectations, and perceived value from both parties. The presenter served as The Boeing Company’s Executive Focal for their relationship with Missouri University of Science & Technology (Missouri S&T) and was a CIEC presenter in 2012. After a successful 37 year career at Boeing, he now serves as Missouri S&T’s first Executive Director of Corporate Relations. During this presentation, you will hear unique perspectives on university/corporate relations from both corporate and university viewpoints and lessons learned throughout.
Presenter: John Eash, Executive Director of Corporate Relations at Missouri S&T
11:00 am – 12:30 pm
CPDD 314 Building a Robust Infrastructure for Continuing & Professional Education – Hill Country A & B
An engineering college at a large land, sea and space-grant university in the Southwestern United States unleashed an effort to strategically grow continuing education and workforce development activities. Among the challenges was creating a new system that will also embrace the current practices of more than 30 centers within the domain of engineering at this institution and implement this service by the fall semester of 2015. The session will present the interactions, technologies, and critical pieces that will carry it to success.
 Moderator: Tamara Swann, Mississippi State University
 Presenter: Yakut Gazi, Texas A & M

11:00 am – 12:30 pm
ETD 315 Innovation in ET Curriculums – Texas 6 & 7
Industry needs engineering technologists, but many students drop out of their programs for a variety of reasons. Representatives will share how their colleges and universities are addressing issues related to student retention and the development of new programs.

 Moderator: Walt Buchanan, Texas A&M University
 Presentations and Presenters:
  1. Modernizing How Students Are Introduced to Engineering Technology
     Andrew Deceuster, Weber State University.
  2. Teaching Construction Spanish in the Context of Construction Rather Than in the Context of a Foreign Language
     Brian Sandford, Pittsburg State University.
  3. Using Speech Recognition as an Assessment Tool to Enhance Language Learning: The Development of Pronunciation
     Don Ploeger and Rosemary Rahill, Florida Atlantic University
  4. Calculus Without Limits
     Andrew Grossfield, Vaughn College of Technology
  5. Leading the Way with Interdisciplinary Design Teaching
     Kristi Julian, Mohammed Uddin, and Keith Johnson, East Tennessee State University
  6. Planning and Developing an Online Course
     Ali Mehrabian, Daytona State College, Walter W. Buchanan, Texas A&M University, and Alireza Rahrooh, Daytona State College
12:45 pm – 1:45 pm
CIEC 351 CIEC Awards Luncheon – Texas 1, 2, and 3

The CIEC Awards Luncheon is a great opportunity for networking with colleagues and a chance to recognize the CIEC 2015 award winners from Palm Springs.
Chair: Ilka Balk, University of Kentucky

2:00 pm – 3:30 pm
CEED 322 The Centers for Academic Excellence and CyberCorps Scholarship for Service Programs - Hill Country C & D

This session will provide information on partnerships with the National Security Agency, Department of Homeland Security, and designated CAE schools to produce the knowledge and skills required to work in the cybersecurity field. Information will also be provided on The Scholarship for Service program which offers scholarships to college students pursing cyber-related degrees in return for government service upon graduation. Find out more about government training and education resources!

Moderator: Breann Gorham, Grand Valley State University

Presenters: Dan Stein, U.S. Department of Homeland Security
G.B. Cazes, Cyber Innovation Center
Lynne Clark, National Security Agency (NSA)

2:00 pm – 3:30 pm
CIPD 323 The Skill Summit Story – Texas 5

The Skill Summit story describes the creation of a permanent venue for academic, industry, and government partnerships at Boise State University. This has been done by providing a venue for industry leaders, faculty members, and government leaders to collaborate in ways that improve workplace readiness and decrease time to competent performance on the job, forming partnerships between those who graduate future employees and those who hire them, spotlighting local businesses and the university as the statewide leaders in purposeful college-to-career transitions, and by creating a venue for continuous trans-disciplinary community engagement, rather than a one-time event. The Skill Summit story will be shared with the conference participants.

Moderator: Linda Thurman, University of North Carolina at Charlotte
Presenter: Steve Villachica, Boise State University
**Engineering Course with Real-world Design Objectives**
This presentation will describe how a team from academia and industry was created to invent a new way to educate future engineers through teaching the interaction between modeling and testing and the integration of these two aspects of engineering for the development of robust, long-lasting and safe vehicles. Learn how Clemson University and Honda R&D learned how to work together on this project and how the process works in industry.

Presenter: David Schmueser, Clemson University

2:00 pm – 3:30 pm

**CPDD 324 Administrator’s First 90 Days and Beyond: Creating a Winning Strategy to Drive Change at a New Workplace – Hill Country A & B**
What happens when a seasoned continuing education administrator assumes a position at another institution? Often the first 90 days are relegated to learning the realities (vs. the perception and communications offered in the interview phase) of the state of the business and managing a flow of transition management that encompasses: on-boarding, data collection and learning, team building and staff alignment, goal alignment, strategy, and networking. The presenters will show how they addressed the first 90 days and have used MarketCues SmartPlan360o and IACEE Quality Program to become the change agents in their new positions and plot courses for institutional success.

Moderator: Erin Tanaka, University of Southern California
Presenters: Soma Chakrabarti, University of Delaware, Eric Roe, University of Texas at Austin

2:00 pm – 3:30 pm

**ETD 325 Dean’s Panel: What is the Role of the Assistant, Associate, & Full Professors and How Do They Adapt After Promotion – Texas 6 & 7**
Several prominent Dean’s will discuss “What is the Role of Assistant, Associate, and Full Professors and how do they adapt after promotion?” and may include other faculty designations (adjunct, lecturer, clinical, etc.). The panel will start with a few brief opening comments for background and then this session will be mostly Q&A.

Moderator: Mike Strange, California Maritime Academy
Presenters: Dean Dennis Depew, East Tennessee State University
Dean David Russomanno, Indiana University-Purdue University Indianapolis
ABET Representative TBA
ETD 365 Internet of Things with Cypress PSoC 4 BLE – Foothills II

The Internet of Things is all the rage, come to this workshop to:

- Learn all about the latest Cypress PSoC 4 BLE technology. PSoC is a family of mixed signal (analog, digital, and embedded MCU), programmable devices integrated with a BLE. PSoC is truly the world’s first Programmable System-On-Chip (more info @ www.cypress.com )
- Leave with the knowledge of PSoC Architecture and PSoC Creator Software and learn how you can quickly create an IoT node.
- Includes FREE demo kit ($50 value).

Presenter: Patrick Kane, Director, Cypress University Alliance

3:30 pm – 4:00 pm
CIEC 361 Refreshment Break – Texas Foyer

   Expo Open – Texas 4 and Poster Session Open – Texas 1, 2 & 3

Chair Expo: Candace House Texiera, University of Southern California
Chair Poster Session: Rita Burrell, Mississippi State University

4:00 pm – 5:30 pm
CEED 332 Employee Engagement and Retention Through Co-Ops and Internships – Hill Country C & D

University representatives will discuss innovative programming which assists students in financing their education, gaining relevant work experience which results in obtaining full-time employment upon graduation. Industry representatives will discuss their ROI.

Moderator: Mohammad Moin Uddin, East Tennessee State University

Presenters: Duane Crockrom, CSU-Parker Hannifin Corporation
           Steve Heethuis, NN Autocam
           Anette Karlsson, Cleveland State University
           Paul Plotkowski, Grand Valley State University

4:00 pm – 5:30 pm
CIPD 333 University of Cincinnati Simulation Center – Texas 5

The UC Simulation Center was established as a collaborative effort between UC’s Mechanical Engineering Department and Procter & Gamble. The center provides P&G with cost-effective, high-value virtual modeling and simulation capacity and capability while developing a talent pipeline for future recruitment. This presentation will cover the details about the partnership that have led to a successful venture with benefits for both UC and P&G. Sample project histories will be provided to demonstrate the benefit to students during the course of their studies.

Moderator: Letha Hammon, DuPont (retired)
Presenters: Brent Rudd and Fred Murrell, University of Cincinnati
**Dassault Design Institute, A Mode/Industry Education Collaboration**

Dassault Design Institute (DDI) was founded in 2011 through an agreement (MOU) between Embry-Riddle Aeronautical University (ERAU) and Dassault to provide undergraduate and graduate students at ERAU an opportunity to participate in industry-scale design projects. Projects were carefully selected by Dassault Engineers and ERAU faculty to touch on all aspects of a real-world problem.

Presenters: Lionel De La Sayette, Dassault Aviation
            Maj D. Mirmirani, Embry-Riddle Aeronautical University

4:00 pm – 5:30 pm
**CPDD 334 Filling the Need and Promoting Solutions in Cybersecurity-Hill Country A & B**

The need for well trained and educated individuals in the cybersecurity arena is growing. These positions are excellent opportunities for women to join the cybersecurity workforce. Today, while the workforce is composed of 50% women, only around 10 to 15% of those in cyber jobs are women. The National Cybersecurity Institute (NCI) at Excelsior College, located in Washington, D.C., has launched an Initiative for Women in CyberSecurity (IWICS), to offer support and solutions to women interested in entering the field. Join us in this enlightening presentation that will raise awareness and help transform traditional gender images in the field to open opportunities for women of today and the future.

Moderator: Hiroyuko Iino, Iowa State University
Presenter: Jane LeClair, National Cybersecurity Institute at Excelsior College

4:00 pm – 5:30 pm
**ETD 335 Industry-Academic Partnerships-Texas 6 & 7**

Learn about collaborating with industry, how to sustain industry relations, and see case studies of how industry-academic partnerships can change labs, courses, and curriculums.

Moderator: Rebecca Book, Pittsburg State University

**Presentations and Presenters:**

1. **Collaborating Solar Education with Solar Industry**
   Christian W. Hearn and Fred Chiou, Weber State University

2. **Sustaining Innovative Partnerships with Industry and Academia**
   Daphene Koch, Purdue University.

3. **Academia and Industry Partnership: Building State-of-the-Art Industrial Control and Automation Laboratory**
   Aleksandr Sergeyev, Michigan Technological University

4. **Industry Sponsored SD Capstone Project: Design and Development of an Automated Stacker for Highway Products of Nucor Steel Corporation**
   Aleksandr Sergeyev, Michigan Technological University
4:00 pm – 6:00 pm
**ETD 345 ETD Board Meeting** – Foothills II
Scott Danielson, ETD Chair, will lead a discussion among continuing and newly elected board members about ETD projects and initiatives for 2016. All ETD members are also invited.

4:00 pm – 6:00 pm
**CIP 342/CMC Board Meeting** – Big Bend
Chair: Dan Sayre, CMC Chair

6:00 pm
**CPDD 344 CPDD and IACEE Hospitality Event** – Suite 1601
Hosts: Terri Gaffney, University of Idaho, Rita Burrell, Mississippi State University

6:00 pm
**CIPD 343/CEED 344 CIPD and CEED Hospitality Event** - Suite 1510
Hosts: Sandra English, Ranji Vaidyanathan, and the CEED and CIP Board Members

6:00pm
**ETD 355 ETD Hospitality Event** – Suite 1531
Host: Dave Goodman, Indiana University/Purdue University Indianapolis (IUPUI)
Thursday, February 4th

7:30 am – 12:00 pm
CIEC 461 Registration – Texas Foyer
Mike Mathews, Registrar

7:30 am – 8:45 am
CEED 412 CEEP Breakfast and Business Meeting – Hill Country C & D
Chair: Gayle Elliott, University of Cincinnati

7:30 am – 8:45 am
CIPD 413 CIPD Breakfast and Business Meeting – Texas 5
Chair: Letha Hammon, DuPont

7:30 am – 8:45 am
CPDD 414 CPDD Breakfast and Business Meeting – Hill Country A & B
Chair: Paul Jewell, Iowa State University

7:30 am – 8:45 am
ETD 415 ETD Breakfast and Business Meeting – Texas 6 & 7
Join the ETD leadership as they discuss pertinent division information as well as upcoming events and activities. All ETD members are encouraged to attend.
Chair: Scott Danielson, Arizona State University

7:30 am – 9:30 am
CIEC 401 Companions Breakfast – Southwest Bistro
All registered companions are invited to breakfast in the Southwest Bistro on the second floor. Information about the tours and events for companions will be discussed.
Chair: Linda Schuver
9:00 am – 9:45 am
CIEC 411 CIEC Industry Day Plenary – Texas 1, 2, & 3

From Associates to PhD, earning a degree in engineering is a great accomplishment, but the drive to learn and achieve that propelled students to reach graduation cannot stagnate once on the job. To ensure that the highest levels of innovation, personal effort, and career satisfaction are consistent and pervasive within the engineering organization’s culture, the company’s leaders must provide opportunities within role and within the organizational environment at large to facilitate progressive learning and accomplishment among these key human resources. An experience-based description on how alignment of work opportunities to what truly speaks to an engineer’s value system will be presented.

Moderators: Mark Schuver and Mitch Springer
Speaker: Ben Eynon, Senior Director, Engineering Development at Samsung Electronics

9:30 am – 3:30 pm
CIEC 421 Companions Tour – Austin Hill Country – Off Site

Austin Hill Country tour, you will enjoy a private guided scenic tour. We will see the unexpected gems of Texas, their breathtaking limestone canyons, beautiful spring-fed rivers and rustic German towns. Along the way we will stop at a premier custom glass designer’s studio and see a glass blowing demonstration. Then continue to Wimberley, a quaint local artisan community where we will have an opportunity to shop for local arts and crafts. Lunch will be “on your own,” providing each guest a choice to sample some of the fresh local cuisine. The tour will conclude with a visit to a charming local winery and enjoy tasting some of Austin Hill Country’s spectacular “vino.” Ticketed participants should meet in main lobby at 9:15 am.

Chair: Linda Schuver

10:00 am – 10:45 am
CIEC 431 Refreshment Break – Texas Foyer

Expo Open – Texas 4
Poster Session Open – Texas 1, 2 & 3

Chair Poster Session: Rita Burrell, Mississippi State University
Chair Expo: Candace House Teixeira, University of Southern California

Join your colleagues for a refreshment break and take time to visit the poster session in the break area of the Texas Ballroom.
11:00 am – 12:30 pm
CEED 422 CEED Industry Roundtable – Hill Country C & D
Panelist representing a variety of industries will discuss linking the co-op sessions breath vs. depth, how does the business assign the co-op rotation if a student does not have an interest but it is the business need. Panelists will share their company’s programs, recruiting co-ops vs. interns and best practices
Moderator: Reginald McGregor, Rolls-Royce Corp.
Presenters: Gregory Martin, ExxonMobil
   Juli Chrispen, Turner Construction
   Duane Crockrom, CSU-Parker Hannifin Corporation

11:00 am – 12:30 pm
CIPD 423 CIPD Industry Roundtable – Texas 5
Industrial and corporate representatives from the College-Industry Partnership Division will discuss the criteria for the development of successful partnerships with academia and why it is so difficult to develop partnerships that will meet the needs of both organizations, academia and industry. Audience participation will be encouraged to build upon the thoughts of the panelists and share experiences with development and maintenance of successful partnerships.
Moderator: Ben Zoghi, Texas A & M
Panelists: Charles Baukal, John Zink Co.
   David Schmueser, Altair Engineering
   Jeff Smith, EcoBuildings, US Country
   Dave Wilson, National Instruments

11:00 am – 12:30 pm
CPDD 424 CPDD Industry Roundtable – Hill Country A & B
The 2016 CIIE CPDD Industry Roundtable will focus on the identification of, and partnership formation with, our industry customers. Specifically, we will present two short topics discussing a cross-university model for identifying our customer base, followed by the presentation of a customer-centric model in support of corporate-university partnerships. These two presentations will be followed by a roundtable customer perspective of what is desired and required from our collaborating universities. An open panel discussion will follow thereafter.
Moderator: Barry Willis, University of Idaho
Presenters: Rachel LeBlanc, Worcester Polytechnic Institute, Mitch Springer, Purdue University
11:00 am – 12:30 pm
**ETD 425 ETD Industry Roundtable – Texas 6 & 7**
Several prominent Industry leaders will discuss educational gaps from academia to industry and how they developed and adapted solutions. They will provide case studies and the audience will join to discuss best practices, alternate solutions, etc.

Moderator: Betsy Dell, Rochester Institute of Technology.
Presenters: Wayne Payack, Vice President, Advanced Engineering SMS Leader, Fearless Innovation Team, Stanley Security Solutions, Timothy Flynn CEM CMVP Energy Manager Roudebush VA Medical Center

12:45 pm – 1:45 pm
**CIEC 441 Industry Day Luncheon – Texas 1, 2, & 3**
Join your colleagues as we continue our networking dialogue regarding industry/academic partnerships and collaborative activities. Special awards will also be presented to the corporate and academic sponsors of CIEC 2016.
Chair: Mark Schuver & Mitchell Springer, Purdue University

2:00 pm – 3:30 pm
**CEED 432 Industry and University Partnerships – Hill Country C & D**
This interactive session will include discussion of strategies to developing and strengthening relationships with companies. Industry representatives will provide approaches to recruiting the best talent and how to identify when a university is providing the resources to achieve this goal. What strategies are needed to help recruit and place underrepresented students.
Moderator: Woodrow Whitlow, Cleveland State University
Presenters: Angie Chrestman, Mississippi State University
  Duane Crockrom, CSU-Parker Hannifin Corporation
  Jackie Herold, University of Central Florida
  Kurt Mandeville, National Instruments
  Veibhau Kumar, Texas Instruments
  Jori Psencik, Texas Instruments
2:00 pm – 3:30 pm
CIPD 433 SMART Campus Industry/Univ. Educational Initiative at Texas A&M – Texas 5
At Texas A&M University (TAMU), a private industry partner, Schneider Electric, is sponsoring a concept, where in addition to supporting the development of a new tech elective course on “Energy Management,” a “LIVE” laboratory has been set up for the design and deployment of a real-time energy monitoring system in the electrical engineering department to educate students on energy efficiency and smart building design. The goal of the course is to study different buildings on campus and, by using real-world audit techniques and analyzing actual campus building data, propose a technical/financial solution to make it SMART.
Moderator: Beth Bryant, Georgia Institute of Technology
Presenters: Ben Zoghi and Allison Sartor, Texas A&M University

2:00 pm – 3:30 pm
Learn how the Stanford Center for Professional Development (SCPD), part of Stanford University's School of Engineering, created a professional portfolio to complement its existing graduate education offerings to industry. This interactive session will share an SCPD case study and also, teach participants how to use design thinking methods. Learn how your organization can use innovation techniques (as SCPD did) to developing complimentary portfolios while keeping a pulse on future trends and themes with MOOC providers.
Moderator: Susan Gates, The University of Tulsa
Presenters: Carissa Little, Stanford University, Paul Marca, Stanford University
2:00 pm – 3:30 pm
ETD 435 ET National Forum – Texas 6 & 7
The Engineering Technology National Forum (ETNF) is an action arm of the ASEE Engineering Technology Council that provides a continuity of effort in taking internal and anecdotal discussions to a higher level to investigate them factually, and to turn high-level issues into action items of national impact. The ETNF also works closely with the Engineering Technology Leaders Institute to develop the program for the conference held in Washington, DC each fall.

This CIEC session will report on activities and seek input from attendees on current and potential future activities that impact Engineering Technology nationally. Ongoing activities include:
1) Follow up on the NSF sponsored study by the NAE examining the status, role, impact, and needs of Engineering Technology education in the United States
2) Development of ET value statements to support marketing of ET programs nationally
3) Development of national website documenting ET Career Successes in engineering
4) Initiative to validate “applied engineering” as an accreditable title for BS-ET programs
Moderator: Alex Sergeyev, Michigan Technological University
Discussion Leader: Ron Land, Penn State University

2:00 pm – 3:30 pm
ETD 455 ECETDHA Board Meeting – Foothills 1

3:30 pm – 3:50 pm
CIEC 451 Refreshment Break - Texas Foyer
   Expo Open – Texas 4
   Poster Sessions – Texas 1, 2 & 3

4:00 pm – 5:30 pm
CEED 442 How to Develop Sustainable Models for Facilitating International Co-Op and Internships – Hill Country C & D

This interactive presentation will present and discuss university-corporate partnerships that develop internships and co-ops for students abroad. We will present successful models while outlining potential challenges and hurdles that can be overcome with developing such endeavors. Each presenter will share guidelines, polices, and procedures to consider when developing international co-ops and internships.

Moderator: Bernadette Friedrich, Michigan State University
Presenters: Jennifer Evanuiik, Georgia Institute of Technology
            Alison Reynolds, Clemson University
4:00 pm – 5:30 pm
CIPD 443
Science of Baseball STEM Outreach Program – Texas 5
The Science of Baseball is a series of programs and initiatives with the objective to promote
STEM through classroom theory and practical applications of the sport of baseball. The program
provides a mechanism for elementary and middle school students to improve their academic
performance. The goal is to translate the American love of baseball into an appreciation,
understanding, and passion of the science and mathematics underlying the sport. The Science
of Baseball showcases how the collaboration between Industry and University can come
together, and have a significant positive impact on local communities (primarily as it relates to
the ever challenging effort of encouraging young students to pursue STEM related fields).

Moderator: Terri Schultz, Project Lead the Way
Presenters: Maj. Danny Thebeau, and Capt. Thomas Ryan, West Point and Ricardo Valerdi,
University of Arizona

Corporate Collaboration with Diversity Student Programs at UT Austin – Texas 5
In the Cockrell School of Engineering at The University of Texas at Austin, there are two strong
diversity programs that have had great success in recruiting, retaining and graduating
underrepresented students. The Equal Opportunity in Engineering (EOE) Program and the
Women in Engineering Program (WEP) strategically partner with corporations that financially
support initiatives, provide in-kind contributions, offer student scholarships, and engage
engineering role models to connect with program participants. In this presentation, how the
collaboration with corporations is integrated throughout our programs and how corporate
representatives and role models are engaged will be showcased. The highlights of effective
messaging research and proven tactics for recruiting diverse engineering students will also be
presented.

Moderator: Terri Schultz, Project Lead the Way
Presenters: Enrique Dominguez and Tricia Berry, University of Texas at Austin

4:00 pm – 5:30 pm
Share your success stories regarding innovation practices you have implemented or are
planning, along with questions and ideas for your peers in this highly interactive discussion
about best practices and lessons learned in the continuing professional education field. Let’s
plan for the future together!

Moderator: Pat Hall, The University of Tulsa
4:00 pm – 5:30 pm
ETD 445 Recruitment and Retention of Diverse ET Faculty & Students – Texas 6 & 7
Creative ideas, strategies, and case studies of methods to attract and retain diverse faculty and students.

Moderator: Moin Uddin, East Tennessee State University

1. **Women in Engineering Technology at XXX: Strategies to Recruit, Retain and Advance Women Engineering Technology Faculty and Students**
   Elizabeth Dell, Rochester Institute of Technology

2. **Reflections on the 2015 Females in Technology (Fit) Summer Boot Camp for Recruiting Females into Technology Disciplines**
   Evelyn Sowells, North Carolina A&T State University

3. **Minority Engineering Advancement Program @ IUPUI**
   Patrick Gee, Indiana University-Purdue University Indianapolis

4. **Using Industrial Experiences for Recruitment & Retention: an IAC Case Study**
   David Goodman, Indiana University-Purdue University Indianapolis

4:00 pm – 6:00 pm
ETD 465 JET Board Meeting – Foothills 1

Chair: Vladimir Genis

6:00 pm
CEED 452 CEED Awards Reception – Uncle Julio’s Fine Mexican Food 301 Brazos St. Suite 150
This special gathering will honor the winners of this year’s CEED Awards: Co-op Student of the Year, Intern Student of the year, The Alva K. Borman Award and the Takacs Employer of the Year Award. Join your CEED colleagues in congratulating the winners and enjoy light refreshments to start off the evening.

Hosts: CEED Board and Awards Committee
Friday, February 5th

8:00 am – 10:10 am
CIEC 371 Registration – Texas Foyer
Mike Mathews, Registrar

8:00 am – 9:15 am
CEED 502 CEED Breakfast & 2017 CIEC Planning – Hill Country C
All CEED members are invited to share their ideas about programs/sessions for the 2017 CIEC conference.

Robin Hammond, Arizona State University
Christopher Plouff, Grand Valley State University

8:00 am – 9:15 am
CIPD 503 CIPD Breakfast & 2017 CIEC Planning – Suite 1510
All CIP and CMC members are invited to share their ideas about programs/sessions for the 2017 CIEC conference.

Ranj Vaidyanathan, Oklahoma State University
Terri Schulz, Project Lead the Way

8:00 am – 9:15 am
CPDD 504 CPDD SIG Breakfast & 2017 CIEC Planning – Hill Country A
Meet with a Special Interest Group, which includes: Administration, Faculty, International, Industry and Delivery. Share ideas for workshops and sessions that you would like to either present or attend at CIEC 2017.

Moderator: Mark Schuver, Purdue University
Presenter: Rita Burrell, Mississippi State University

8:00 am – 9:15 am
ETD 505 ETD Breakfast & 2017 CIEC Planning – Hill Country D
Join in fellowship with Engineering Technology Division members from around the globe.
9:30 am – 10:45 am
CEED 512 Innovation and Sustainability for Student and Professional Development – Hill Country C
Let’s take theory to practice, like co-op. In this session we will review several student development, career, and learning theories what can provide practitioners with an in-depth understanding of students which in turn, can help us develop relevant and meaningful programs that focus on students, their learning experience, and their future success. Also, from Co-op Coordinators to Career Services officials - This session will provide tips for assisting students to use internal and external tools to co-op or intern. We will discuss how some colleagues provide students with excellent “fishing lessons” instead of just “handing out fish.”

Moderator: Vickie Kuntz, University of Toledo
Presenters: John Bau, University of Connecticut
            Lisa Massi, University of Central Florida

9:30 am – 10:45 am
CIPD 513 CIPD Board Meeting – Suite 1510
The CIPD Board will meet to discuss plans for the ASEE annual conference in Austin, CIEC 2017 in Jacksonville, FL and special division activities. All CIPD members are invited to attend.

Chair: Terri Schulz, PLTW

9:30 am – 10:45 am
CPDD 514 Repurposing Media for Engineering Education – Hill Country A & B
There are a variety of pedagogies for distance engineering education among CPD member institutions. Even among those that record and distribute media of class sessions and group meetings as part of their pedagogy, each does it a bit differently to match their particular needs and assets. This moderated panel discussion offers a brief overview of the similarities and differences in how these programs “produce” media to support instruction for distance students and expand on how each is finding value in repurposing or expanding the use of these media assets to further serve the mission of their institutions.

Moderator: Ann Rausch, University of Minnesota
Presenters: Douglas Ernie, University of Minnesota, Ron Fitch, University of Minnesota, Matt Carver, Iowa State University, Marty Ronning, University of Maryland, Greg Ruff, Auburn University
9:30 am – 10:45 am
ETD 515 New Courses in Engineering Technology – Hill Country D
Several engineering technology programs are adding new courses to keep their programs state-of-the-art and to aid in student learning. Learn how these Universities developed courses in Six Sigma and Applied Statistics, and an Experimental Vehicle Program. Learn how others converted traditional to blended learning format, used an on-line portfolio system, and use small business support for product development to enhance the curriculum.

Moderator: Walt Buchanan, Texas A&M University
Presentations and Presenters:
   Wei Zhan, Texas A&M University

2. Experimental Vehicle Program (EVP)-New Courses in Engineering Technology Curriculum
   Saeed D. Foroudastan, Karly A. Danhausen, and Chelsea R. Nihill, Middle Tennessee State University

3. Blended Learning Course Redesign for Manufacturing Engineering Technology
   Rick W. Orr, Weber State University

4. Integrating On-line Portfolios in Engineering Technology Courses
   Omnya Zaman, Niaz Latif, and David McLees, Purdue University Calumet

5. Small Business Support for New Product Development
   Jay Porter and Joseph Morgan, Texas A&M University

11:15 am – 6:00 pm
CIEC 501 Golf Networking Event – Off-Site
Luther Epting Golf Classic Avery Ranch Golf Club
The Luther Epting Golf Classic is a wonderful way to enjoy Austin and participate in face-to-face networking opportunities with conference participants, companions and guests. A bag lunch will be served at 11:45 a.m. At 12:15 p.m. the Best-Ball Scramble Format will be held, a wonderful activity for both newcomers and experienced golfers. After an afternoon of great exercise and perhaps sharing of “golfing tales”, participants will have dinner at the golf club’s restaurant and celebrate their accomplishments. This event is co-sponsored by RoMan Manufacturing, Inc., Quanser, and Grand Valley State University. However, individuals must have preregistered and tickets are required to cover additional costs of the event. Cost: $60 per person. Depart from hotel main lobby at 11:15 am.

Coordinator: Paul Plotkowski, Grand Valley State University
11:00 am – 12:15 pm
CIEC 511 2016 Debriefing to 2017 Management Team – Hill Country B
Chair: Mark Schuver/Mitch Springer, Purdue University

11:00 am – 12:15 pm
ETD 525 Potpourri of Creative Ideas – Hill Country D
Creative ideas and inspiring papers which did not quite fit the programs sessions are included in this session. Contributions span from integrating safety into the curriculum, to ethics, to a student writing exercise on difficult thermodynamics topics, as well as an innovative teaching tool for tablets.

Moderator: Ryan Storz, California Maritime Academy

Presentations and Presenters:
1. Integrating Safety and Education
   Julie Dainty and Ann Petersen, Pittsburg State University

2. Turning Turtle: Engineering Lapse, Human Error, and Ethics
   Marilyn A. Dyrud, Oregon Institute of Technology

3. Thermodynamics for Dummies
   Tatiana V. Goris, Purdue University

4. Ydraw: Teaching tool for Tablets
   Ramesh Yerraballi, University of Texas at Austin

12:15 End of Conference

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