

CPDD SESSIONS – CIEC 2020

Engineering Education in an Era of Change

Tuesday, January 28

1:00 PM

CPDD Workshop: Director's Workshop

Moderator: Tamra Swann, Mississippi State University

Join this highly interactive and strategically moderated workshop with top administrators from continuing professional education programs across the globe. Participants will share and discuss current opportunities and challenges in today's continuing education environment, ask questions about specific areas of concern, and examine strategies and tactics for improving policies and practices. This event will be of interest to anyone associated with credit or non-credit continuing education programs. Workshop fee: \$75.00

Wednesday, January 29

11:00 AM

Developing Online Programs

Presenters: Audeen Fentiman, Purdue University
George Syrmos, University of Maryland
Glynn Cavin, Auburn University
Sabrina Casucci, University of Buffalo
Lisa Butler, Auburn University

Moderator: Kerri Poplar James, University of Maryland

What is involved with developing an online program that strategically meets the needs of the university and workforce? This panel will address issues ranging from brainstorming potential degree/program opportunities and the steps necessary for successful implementation within the different universities they represent, best practices, and strategies for marketing a new program.

2:00 PM

Collaboration in the Classroom:

Best Practices for Groups Project in Online Education

Presenters: John Cable, University of Maryland
Keith Plemmons, The Citadel

Moderator: Dee Newell, Mississippi State University

Using actual experiences, panelists will collaboratively address challenges, experiences, and lessons learned in how to create the best learning experiences for adult students in online courses. Examples of issues to be addressed include: selection of team members; structure of assignments; tools and practices for team coordination; instructor/advisor mentoring of teams; grading of team assignments; and when and how to intervene in dysfunctional groups. Bring your experiences and questions to share in this interactive session. Each of the panelists teach graduate-level project management courses designed primarily for adult, practicing engineers and technical professionals.

FLEXspace: Space to Learn!

Presenter: Lisa Stephens, University of Buffalo

Moderator: Dee Newell, Mississippi State University

The Flexible Learning Environments eXchange is a highly searchable, open repository of learning space exemplars and best practices freely available to educators to ideate, design, and share effective learning spaces and practices. FLEXspace contains images, videos, and detailed descriptions of facilities and furnishings, technologies, and learning activities supported in each space which facilitates collaboration between faculty, facilities planners, AV/IT technologists, and others. FLEXspace contains over 4,000 members from 1,300 unique institutions across 57 countries led by a core team of global experts and an emerging research and evaluation group from industry and academia.

4:00 PM

Change in Online Education and Online Students: Virtual Reality Scenarios in Continuing Professional Development

Presenter: Chuck Baukal, John Zink Institute
Moderator: Douglas Ernie, University of Minnesota

Virtual reality (VR) is particularly well-suited for training situations involving very large or very small scales and for dangerous environments. These may be difficult if not impossible to do in live training because of the costs and potential danger. A heater explosion simulation will be used to demonstrate how VR can be used in continuing professional development. While VR has been used in airplane simulators for many years, the costs have come down so much that this technology is now viable for a wide range of training applications. Estimated costs and equipment for VR demonstrations will also be presented.

Generational Cohort Perspectives on the Changing Demographics of America: Implications in Online Program Offerings

Presenter: Mitchell Springer, Purdue University
Moderator: Douglas Ernie, University of Minnesota

The United States of America is undergoing, and will continue to undergo, a demographic transformation the likes of which have never been experienced in this great nation. During this era of tectonic change, these many seemingly independent demographic shifts, together, are shaping higher education's practices and policies as well as the culture in which we live. This presentation will add to, and continue, this dialogue by addressing the social, political and educational perspectives of our youngest generational cohorts in our online programs, namely Gen Y (Millennials) and Gen Z.

Thursday, January 30

11:00 AM

Strategic Global Planning in Continuing Engineering Education

Presenters: Nelson Baker, Georgia Institute of Technology
Candace House Teixeira, University of Southern California
Moderator: Melissa Walden, Texas A&M University

The landscape of continuing engineering education is ever changing. As market needs fluctuate, are the policies that affect continuing engineering education evolving? What continuing engineering education policies exist in the United States and how do universities remain compliant? What can we learn from policies that have been implemented around the world? Join us for an interactive discussion on continuing engineering education policies, creative ways to address policy gaps and how thought leaders in higher education can affect change.

2:00 PM

The Industry/Academic Partnership: Is the Marriage Working?

Presenters: Sue Ellspermann, Ivy Tech Community College
Nathan Hartmann, Purdue University
Heather Moore, University of Arizona
Dora Smith, Siemens Digital Industries Software
Sandy Dietrich, Tenneco
David Liaw, Northrop Grumman
Tom Kelly, Automation Alley
John Miller, Manufacturers Alliance for Productivity and Innovation
Bruce Kramer, National Science Foundation

Moderators: David Pistrui, University of Detroit Mercy
Darrell Kleinke, University of Detroit Mercy

Join panels of academics and industry experts as they evaluate performances and assign grades with respect to how well each side is holding up their end of the industry/academia partnership. Panel members will take turns in the hot seat, as they first self-assess their performance, then

listen as their partners grade them. Audience participation and a third panel representing society will also have the opportunity to assign grades and register comments/issues as they see them. The end result of this session is a list of challenges to be addressed at the ASEE Engineering Workforce Summit in the fall of 2020.

4:00 PM

Researching Markets in Distance Education

Presenters: Vinette Brown-Darlington, University of Maryland
Stacy Chiaramonte, Worcester Polytechnic Institute
Sarah Alwine, Purdue University

Moderator: Glynn Cavin, Auburn University

For most of us, our units are responsible for generating tuition revenue through online and on campus professional programs. Usually, we have a limited budget to launch and market those programs. In this interactive session, the University of Maryland, Purdue, and WPI share their approach to conducting market research analysis detailing the following: What has worked well and what could be improved; how each University determines which programs should be developed; what budget should be allocated per program; and how each University evaluates the best investment of marketing funds. Each institution has a different approach, including some outsourcing and some internally conducted market research. We will share ideas for a range of budgets, including handling in-house with existing resources.

Friday, January 31

9:00 AM – 12:00 PM

SIG Planning for CPDD 2021 Session - SIG Roundtable Discussion

Moderator: Mark Schuver, Purdue University

Networking with peers is the most important benefit of attending CIEC, according to our CPDD colleagues. Meet with a Special Interest Group! Our SIGs include Administration, Delivery, Faculty, Industry, International, and Marketing. This session will be the capstone of our conference sessions, with the opportunity for all to discuss their program's questions and concerns about current engineering education issues and trends, as well as generating ideas for workshops and sessions for CIEC 2021.