

CIPD SESSIONS – CIEC 2020

Engineering Education in an Era of Change

Wednesday, January 29

11:00 AM

Structuring Win/Win Partnerships in Industry-Academia Engagements

Presenters: Max Weintraud, NSIN, Department of Defense
Matt Rocca, Pressed Juicery Corporation
David Law, Northrop Grumman
Glenn Weckerlin, Chevron

Moderator: Magdalini Lagoudas, Texas A & M

There are many different types of collaborations between industry and academia. Structuring them so that each party realizes a clear benefit is central to a strong and positive relationship. This session will address some of the key points in forming win/win partnerships across research, recruiting, continuing education, start-ups, and more. Additionally, several successful models will be discussed.

2:00 PM

Industry Involvement in Shaping Engineering Curricula

Presenters: Brissa Quiroz, California State University, Fresno
Gill Morris, Siemens
Matt Rocca, Pressed Juicery

Moderator: Svetlana Mitrovski, University of Illinois at Urbana-Champaign

As the “consumers” of the talent output of universities, employers need to have a say in the training of the graduates they hire. This session will explore ways in which industry and universities can interact to exchange and to implement ideas on improving undergraduate and graduate engineering programs.

4:00 PM

Filling the Workforce Pipeline

Presenters: Dennis Warner, Rolls-Royce (Retired)
Diana Bairaktarova, Virginia Tech
Homero Murzi, Virginia Tech
Soma Chakrabarti, ANSYS

Moderator: M.K. Pilotte, Purdue University

In recent years, employers have struggled to hire qualified engineering graduates because of a tight labor market. The tight market has also created competition for talent among different industries. This session will highlight best practices by companies and universities to address this problem including early engagement, cohort programs and sustainable recruitment relationships.

6:00 -8:00 PM

CIP Division Hospitality Event

Covington Mills Restaurant, Hilton Hotel

All members of the CIP Division and the Corporate Member Council are invited to the annual CIP Hospitality Session. Come and meet new CIEC participants, CIP speakers and moderators and special guests. Join us in a great networking opportunity. Light refreshments and drinks will be served.

Thursday, January 30

11:00 AM

Industry Sponsored Curricula, Courses and Research

Presenters: Stacy Wilson, Western Kentucky University
Shane Brown, Oregon State University
Randy Peters, Indiana State University
David Schmueser, Clemson University

Moderator: Rick Berkey, Michigan Tech University

Engineering programs in U.S. universities sometimes fall short in delivering education that effectively prepares graduates in areas of practical interest to employers. Some of this is related to the experience and training of university faculty and some to the lack of resources to develop such courses. Differences in academic and industry contexts can also play a role. This session will discuss successful examples of specific courses, programs, and research studies supported and/or informed by industry and the benefits that accrue to employers, colleges and students.

2:00 PM

Industry-Sponsored Research in Universities

Presenters: Erik Sander, University of Florida
Rick Orr, Weber State University
Taryn Riley, Siemens Energy
David Law, Northrop Grumman

Moderator: Keith Stanfill, University of Tennessee

The volume of industry-sponsored research and development in universities is tiny compared to government funded basic research. Recently, there has been renewed interest in universities in research and development collaboration with industry. This session will explore issues and challenges related to and proven best practices in such collaborations.

4:00 PM

Government Involvement in Industry-Academic Collaboration

Presenters: Erik Sander, University of Florida
Barry Johnson, University of Virginia (formerly NSF)
Wayne Gersie, Penn State University
Melanie Spare, Siemens Corporation

Governments in the United States and other countries have tried to encourage research and workforce training collaborations between industry and universities. In the US such efforts have include programs such as GOALI and U/UCRC (both by NSF). This session will discuss the results of such efforts and ideas for new directions in this space.

Friday, January 31

7:30 AM

CIEC Continental Breakfast

Mezzanine Floor

CIP Planning Meeting for the 2021 CIEC Conference

Join members of the division in planning sessions for next year's conference in Garden City, California.

Session Leader: Mahesh Aggarwal, Gannon University

9:00 AM

Diversity and Inclusion in the Workplace

Presenters: **Burton Dicht, IEEE**
 Erin Hostelter, Penn State University
 Ashley Henderson, ASME

Moderator: **Mahesh Aggarwal, Gannon University**

Our population is constantly evolving which makes the issue of diversity and inclusion that much more important on a global scale. Industry and academia must address the needs of these underrepresented communities and transition from the traditional form of diversity to support all audiences. This session will explore the initiatives taken by industry and academia to address the lack of diversity and inclusion in the workplace.

10:35 AM

CIP Board Meeting

The CIP Board Directors and Officers will meet to discuss the business of the division and make plans for future projects of the division.

12:00 Noon

Conference Concludes