

FOCAPD 2019

Foundations of Computer-Aided Process Design

July 14 – July 18, 2019 ♦ Copper Mountain Resort ♦ Copper Mountain, Colorado

PROGRAM – Roger Sargent & Education Session

All general sessions will be located in the Bighorn Ballroom

Thursday, July 18

7:00 a.m. to	8:00 a.m.	Continental Breakfast
8:00 a.m. to	11:45 a.m.	SESSION IN HONOR OF PROFESSOR ROGER SARGENT <i>Chair:</i> <i>Chair:</i>
8:00 a.m. to	8:05 a.m.	Session Introduction
8:05 a.m. to	8:30 a.m.	Roger Sargent: Intellectual Leader and Pioneer of Process Systems Engineering <i>Ignacio Grossmann, Carnegie Mellon University</i>
8:30 a.m. to	9:15 a.m.	Process Modeling: From Sargent's Vision to its Current Directions <i>Costas Pantelides, Imperial College London</i>
9:15 a.m. to	9:40 a.m.	Major Contributions by Roger Sargent on Nonlinear Optimization and its Applications to PSE <i>Ignacio Grossmann, Carnegie Mellon University</i>
9:40 a.m. to	10:05 a.m.	Refreshment Break
10:05 a.m. to	10:30 a.m.	Distillation & Hybrid Separation: Modelling, Synthesis, Design & Operation <i>Rafiqul Gani, PSE for SPEED</i>
10:30 a.m. to	10:55 a.m.	Scheduling in PSE: Before and After the State-Task Network <i>Pedro Castro, University of Lisbon</i>
10:55 a.m. to	11:20 a.m.	Initial Steps into the Field of Machine Learning <i>Erik Ydstie, Carnegie Mellon University</i>
11:20 a.m. to	11:45 a.m.	The Centre for Process Systems Engineering: Interactions and Integration <i>Claire Adjiman, Imperial College London</i>
11:45 a.m. to	1:30 p.m.	Lunch on own

1:30 p.m. to	4:00 p.m.	HIGH-PERFORMANCE COMPUTING, DESIGN TOOLS AND OPTIMIZATION <i>Chair:</i> <i>Chair:</i>
1:30 p.m. to	1:35 p.m.	Session Introduction
1:35 p.m. to	2:25 p.m.	Multi-scale Simulation of Multiphase Systems: Towards Exa-scale Supercomputing And Virtual Process Engineering <i>Wei Ge, Chinese Academy of Sciences</i>
2:25 p.m. to	3:00 p.m.	Approximation Algorithms for Process Systems Engineering <i>Ruth Misener, Imperial College London</i>
3:00 p.m. to	3:35 p.m.	Asset Optimization Software Suites to Drive Digitalization – From Process Modeling to Optimization to Asset Optimization <i>Ajay Lakshmanan, Aspen Technology</i>
3:35 p.m. to	4:00 p.m.	Refreshment Break
4:00 p.m. to	6:00 p.m.	COMPUTER-AIDED PROCESS DESIGN EDUCATION IN THE 21ST CENTURY – ACADEMIC CHALLENGES IN REALIZING INDUSTRY NEEDS Panel Discussion <i>Moderated by Eva Sorensen, University College London</i>
6:00 p.m. to	6:30 p.m.	Free Time
6:30 p.m. to	8:00 p.m.	Reception and Banquet
8:00 p.m. to	9:00 p.m.	Closing Plenary Address <i>Doug Kothe, Oak Ridge National Laboratory</i>
9:00 p.m. to	10:30 p.m.	Closing Reception