

PURDUE PROCESS SAFETY AND ASSURANCE CENTER (P2SAC) AGENDA FOR FALL 2020 VIRTUAL CONFERENCE

GENERAL PROCESS SAFETY AND ASSURANCE

Monday, December 7, 2020 (*Day 2 of 3*)

- 11:30-12:00 **Osman Basaran** (Gedge Professor ChE and Academic Director P2SAC, Purdue):
Welcome, overview, and history and mission/goals of P2SAC
- 12:00-12:30 **Ray Mentzer** (Professor of Practice ChE and Executive Director P2SAC, Purdue):
Welcome and overview of P-MS (PMP) and UG research projects
- 12:30-1:00 **Edward Marszal** (Kenexis): Assessing combustible and HF gas detection
requirements for lithium ion battery containing facilities
- 1:00-1:30 **Bryan Boudouris** (Professor of ChE, Purdue): Low power, low cost portable gas
sensors with highly specific chemical responses
- 1:30-2:00 **Laurence Pearlman** (Marsh): Learning from incidents - are we really learning
and how to rethink investigations
- 2:00-2:30 **Trish Kerin** (IChemE): Leadership in process safety, now more than ever
- 2:30-3:00 **Vilas Pol** (Professor ChE, Purdue): Designing safer batteries via materials
architectures and multimode calorimetry
- 3:00-3:15 Break
- 3:15-3:45 **Kingsly Ambrose** (Associate Professor ABE, Purdue) and **Carl Wassgren**
(Professor ME, Purdue): Developing a non-contact dust layer thickness
measurement system
- 3:45-4:15 **Bruce Vaughen** (CCPS): Understanding and managing the risk during the
transient operating mode: Start-ups and Shut-downs

- 4:15-4:45 **Raj Gounder** (Associate Professor ChE, Purdue): Prevention through design and heterogeneous catalysis
- 4:45-5:15 **Letian Dou** (Assistant Professor ChE, Purdue): Safe and efficient printed perovskite solar cells and optoelectronics
- 5:15-5:45 **Donald Knoechel** (Fauske): Process safety scale-up aspects of a nitric acid-catalyzed hydrolysis of epichlorohydrin reaction
- 5:45-5:50 **Osman Basaran** (Gedge Professor ChE and AD P2SAC, Purdue): Closing remarks