

AGENDA FOR SPRING 2021 CONFERENCE PURDUE PROCESS SAFETY AND ASSURANCE CENTER (P2SAC)

May 13, 14, and 17

Day 1—Thursday, May 13, 1:00-5:30 pm: Tutorials

- 1:00-1:15 **Osman Basaran**, Academic Director P2SAC: Welcome, opening remarks, and overview of the programs for the Spring 2021 conference(s)
- 1:15-3:15 **Robert Bellair**, Flammability Leader, Dow:
Flammable ambiguity: challenges in flammability testing and application
- 3:15-3:30 **Break**
- 3:30-5:30 **Katie Mulligan**, Reactive Chemicals SME, Dow:
Practical applications, extensions and limits of reactive chemical testing tools

Day 2—Friday, May 14, 12:00-5:30 pm: General safety and assurance mini-conference

- 12:00-12:15 **Osman Basaran**, Purdue: Opening remarks and welcome
- 12:15-12:45 **Ray Mentzer**, Purdue: Opening remarks and overview
- 12:45-1:15 **Kathy Shell**, aeSolutions and **Jaidev Amrite**,
Sparkcognition: Put artificial intelligence and machine learning to use today to increase reliability and reduce incidents
- 1:15-1:45 **Vilas Pol**, Purdue: General talk on batteries and battery safety
- 1:45-2:15 **Elizabeth Rosene**, Purdue (UG): Organizational health a new methodology and survey for measuring [project done in collaboration with ACC & Marsh]
- 2:15-2:45 **Sarah Eck**, Dekra: Truck unloading-human performance
- 2:45-3:00 Break
- 3:00-3:30 **Tekin Kunt**, PSRG: Common cause failures – awareness and mitigation

- 3:30-4:00 **Abhijit Talpade**, Purdue (PhD candidate) and **David Moore**, AcuTech: Analysis of cybersecurity risks of proposed remote CISTAR facilities
- 4:00-4:30 **Wahid Wakil**, Smith & Burgess: Commonly missed overpressure scenarios in relief device sizing
- 4:30-5:00 **Jim Klein**, ABS Group: Sustaining effective process safety programs
- 5:00-5:30 **Xinyu Zhen**, Purdue (PMP graduate): Safety shower and eyewash systems - best practices

Day 3—Monday, May 17, 12:00-5:15 pm: Mini-conference on safety and assurance in pharmaceutical and reaction engineering

- 12:00-12:05 **Osman Basaran**, Purdue: (A very short) welcome
- 12:05-12:30 **Ray Mentzer**, Purdue: Introductory/opening talk
- 12:30-1:00 **Anthony Janes**, GSK: Predicting the fire and explosion properties of early phase active pharmaceutical ingredients
- 1:00-1:30 **Jeffrey Sperry**, Vertex: Assessing explosive properties of temozolomide (TMZ)
- 1:30-2:00 **Min Sheng**, Corteva: Heat loss in accelerating rate calorimetry (ARC) analysis and thermal lag for high self-heat rates
- 2:00-2:30 **Raj Gounder**, Purdue: General talk on catalysis and prevention through design (PTD)
- 2:30-2:45 Break
- 2:45-3:15 **Brett Savoie**, Purdue: General talk on reactivity and property prediction using computational chemistry
- 3:15-3:45 **Caitlin Justice**, Purdue (UG): Comparison of

computational models and experimental data for some reactions common to pharma industry (outcome of collaboration between six P2SAC cos and B. Savoie)

3:45-4:15

Pushkar Ghanekar, Purdue (PhD candidate):

Promoting a safe laboratory environment using the reactive hazard evaluation and analysis compilation tool (RHEACT)

4:15-4:45

Ayman Allian, Lilly: A talk on ongoing work in IQ forum

4:45-5:15

Brittany Armstrong, Merck: Process safety assessment of a diborane-generating reaction for pilot plant scaleup