

PURDUE PROCESS SAFETY AND ASSURANCE CENTER (P2SAC)
AGENDA
PROCESS SAFETY AND THE PHARMACEUTICAL INDUSTRY

Thursday, December 10, 2020

- 1:00 – 1:15 **Ray Mentzer** (Professor of Practice ChE, Purdue) Plans for event & overview of recent P2SAC pharma related research
- 1:15 – 1:45 **Ayman Allian** (AMGEN) Safe Scale-up of an Exothermic Grignard Reaction Based on Thermal Hazard Understanding and Engineering Control
- 1:45 – 2:15 **Frank Dixon** (GSK) Playing with fire? A safe and effective quench of Raney cobalt using aqueous sodium nitrate
- 2:15 – 2:45 **Jeff Sperry** (Vertex) Assessing Explosive Properties in the Pharmaceutical Industry
- 2:45 – 3:15 **Brett Savoie** (Assistant Professor ChE, Purdue) High-Throughput Predictions of Molecular Thermodynamics and Reactivity
- 3:15 – 3:25 Break
- 3:25 – 3:55 **Bhoja Kandela** (Lilly) Safe Operating Space for Handling Hydrogen Evolved During STAB Hydrolysis
- 3:55 – 4:25 **Simon Rea** (Mettler-Toledo AutoChem) Utilizing Heat Flow Calorimetry for understanding thermal risks of chemical processes during scale-up and safety studies
- 4:25 – 4:55 **Qiang Yang** (Corteva) Explosion Hazards Associated with Using DMSO and DMF in Chemical Reactions
- 4:55 – 5:25 **Rexonni Lagare** (PhD candidate ChE, Purdue) Clearing the Air: Rethinking dust safety in pharmaceutical manufacturing
- 5:25 – 5:30 **Ray Mentzer** (Professor of Practice ChE, Purdue) Closing comments