PURDUE PROCESS SAFETY AND ASSURANCE CENTER (P2SAC)  
AGENDA FOR 10th BIANNUAL SPRING 2019 CONFERENCE  

Wednesday, May 8, 2019 (Day 2 of 3)  

Wilmeth Active Learning Center, WALC B058

7:15-8:00  Coffee, tea, and pastries

8:00-8:15  Osman Basaran (Academic Director P2SAC, Purdue): Welcome, overview, and history and mission/goals of P2SAC

8:15-8:30  Ray Mentzer (Executive Director, Purdue): Welcome and P2SAC growing project portfolio

8:30-9:00  Raj Gounder (Professor, Purdue): Prevention through design and heterogeneous catalysis

9:00-9:30  Carl Laird (Professor, Purdue): Systems approach to protection of critical infrastructure including leak detector placement in chemical and petrochemical facilities

9:30-10:00  Tony Downes (Honeywell): The case for enterprise digital twins for PS and EHS

10:00-10:20  Coffee break and group photos

10:20-10:45  Katie Mulligan (Dow): Investigation of a polymeric resin deflagration using advanced calorimetric techniques

10:45-11:10  Amy Theis (DEKRA): Applying lessons of reactive chemical incident case studies to your operations

11:10-11:35  Qiang Yang (Dow Agro/Corteva): Safety evaluation of the copper-mediated cross-coupling of 2-bromopyridines with ethyl bromodifluoroacetate in DMSO
11:35-11:50 Rhonda Schmidt (P66): Overview on opportunities for safety training and networking

11:50-12:10 Bruce Vaughen (CCPS): An overview of the center for chemical process safety (CCPS) and the risk analysis screening tool (RAST) software

12:10-1:15 Lunch at Purdue Memorial Union (South Ballroom)

1:15-1:40 Greg Rodway (Marsh): Do your front line leaders get it? Building process safety leadership skills

1:40-2:05 Kenneth Tague (ADM): The challenge of combustible dust

2:05-2:30 Scott Davis (GEXCON): Importance of properly designing dust explosion protection systems: case study: 2014 Georgia Pacific Corrigan facility fire and explosion

2:30-2:55 Greg Miscik (Endress+Hauser): Truck loading incident - analysis and solution

2:55-3:15 Sopuru Ezenwa (Graduate student, Purdue): Academic & industrial lab safety project (a CISTAR / P2SAC collaboration)

3:15-3:30 Break: coffee, sodas, and light snacks

3:30-3:55 Brad Fuller (AcuTech): Facility siting – types of analysis and use/interpretation of results

3:55-4:20 Ed Marszal et al (Kenexis): Updates on Kenexis sponsored MS research projects. (a) Completed project: standard PHA data structures. Upcoming projects: (b) optimal number of CFD scenarios for gas detector placement and (c) improving hazard understanding with PHA gamification.

4:20-4:45 Vilas Pol (Professor, Purdue): Designing safer batteries via materials architectures and multimode calorimetry

4:45-5:05 Steve Son (Purdue Energetics Research Center): An overview of energetic materials research at Purdue
5:05-5:25  Eric Dietz and Joe Pekny (Professors, Purdue): Cybersecurity and hydrocarbon processing facilities (a CISTAR/P2SAC joint project)

5:30  Conference wrap-up

6:30  Dinner at Purdue Memorial Union (South Ballroom)