

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

Tuesday, May 7, 2019 – WALC B058

- 7:30 – 8:00 Coffee, tea & pastries
- 8:00 – 8:15 **Ray Mentzer** (Visiting Professor of ChE and Executive Director of P2SAC):  
Welcome & agenda
- 8:15 – 8:45 **Paul McKenzie** (Executive Vice President, Biogen): Process Safety at  
Biogen & the Pharmaceutical Industry
- 8:45 – 9:15 **Suresh Garimella** (Executive Vice President for Research & Partnerships,  
Purdue): Discovery Park and Multi-Disciplinary Research at Purdue
- 9:15 – 9:45 **Jeff Sperry** (Pfizer): 2M Borane-THF Boiling Liquid Expanding Vapor  
Explosion (BLEVE)
- 9:45 – 10:15 **Zoltan Nagy** (Professor of ChE, Purdue): Upstream Challenges of  
Continuous Processing of Particulates
- 10:15 – 10:30 Break: Coffee & tea
- 10:30 – 11:00 **Rex Reklaitis** (Professor of ChE, Purdue): Downstream Challenges of  
Continuous Processing of Particulates
- 11:00 – 11:30 **Ravi Shankar** (Endress+Hauser): Pharma Process Safety - Instrumentation  
Assets: Health & Performance Monitoring
- 11:30 – 12:00 **Ayman Allian** (Amgen): Pharmaceutical Companies Working Together to  
Make Their Facilities and the World a Safer Place
- 12:00 – 1:00 Lunch @ Purdue Memorial Union; East & West Faculty Lounge
- 1:00 – 1:25 **Ray Mentzer** (Visiting Professor of ChE and Executive Director of P2SAC):  
Pharma Related P2SAC Research
- 1:25 – 1:50 **Carl Laird** (Professor of ChE Purdue): Efficient Computational Methods for  
Safe Operation & Design of Detector Systems

- 1:50 – 2:15      **Stan Kolis** (Lilly): Use of Ab Initio Calculations for Assessment of Pharmaceutical Process Safety
- 2:15 – 2:40      **Carl Wassgren** (Professor of ME, Purdue): Powder Handling & Flow Assurance
- 2:40 – 2:55      Break: Coffee & soft drinks
- 2:55 – 3:20      **Roy Flanagan** (GSK): Process Safety Considerations for Outsourcing
- 3:20 – 3:40      **Sopuru Ezenwa** (Purdue, PhD student): Academic & Industrial Lab Safety Project
- 3:40 – 4:05      **Eric Munson** (Professor & Head of Industrial & Physical Pharmacy, Purdue): Formulation Challenges of Continuous Manufacturing of Particulates
- 4:05 – 4:30      **Li-Jen Ping** (Johnson Matthey): Managing Heat Accumulation @ Scale Using a Kinetic Model
- 4:30 – 4:55      **Brett Savoie** (Assistant Professor ChE, Purdue): Quantum Molecular Modeling to Extend Property Prediction Using Benson Groups and CHETAH
- 4:55 – 5:20      **Michael Toth** (Merck): Partial Inertion as Basis of Safety for Pharmaceutical Operations Involving Highly Ignition Sensitive Powders and Modeling Combustion Properties as a Function of Oxygen Conc
- 5:20              **Ray Mentzer**: Closing & follow up
- 6:30 -              Cocktails @ Purdue Memorial Union, followed by 7:15 dinner; East & West Faculty Lounge