Tuesday, December 11 (day prior to the conference)

6:00 pm  Pre-conference dinner and discussion  (Industrial members, guests, faculty, students, and postdocs)
          5th Floor Mingling Room at Ross Ade Stadium (park in lot outside venue)

Wednesday, December 12, Wilmeth Active Learning Center, B058 (new venue!)

7:15-7:45  Coffee, tea, and light snacks

Session 1:  Welcome and Introduction to P2SAC

7:45-8:00  Osman Basaran (Professor of ChE and Academic & Founding Director P2SAC, Purdue):  Welcome, what is P2SAC, and agenda

8:00-8:20  Ray Mentzer (Visiting Professor of ChE and Executive Director P2SAC, Purdue):  Report on broadening number and scope of P2SAC projects via PhD, MS, and UG student participation and industry mentoring; update on dual-level course on process safety management; new P2SAC initiatives and activities

Session 2:  Quantitative and Simulation-Driven Approaches to Process Safety
          (Moderator: O. Basaran)


9:05-9:45  George Harriott (Air Products):  Leak detection on gas pipelines
9:45-10:00  Sai Swetha Sathanapally (ChE PMP student, Purdue): Characterization of reactive chemical hazards via calorimetry

10:00-10:15  Coffee and snack break

Session 3: Improving Process Safety (Moderator: R. Mentzer)

10:15-10:50  Raj Gounder (Professor of ChE, Purdue): Prevention through catalyst design for applications in the petrochemical industry

10:50-11:20  Stewart Behie (Occidental): Driving PSM performance beyond KPI metrics


11:50-12:15  Tony Downes (Honeywell): Trust, but verify - the case for placing the entire safety lifecycle in one accessible place

12:15-12:55  Catered lunch for participants (industrial reps, faculty, graduate and undergraduate students, and other guests)

Session 4: Broad Applications of Process Safety and Flow Assurance (Moderator: O. Basaran)

12:55-1:20  Han Xia (Eli Lilly): Identifying autocatalytic decomposition reactions using model free kinetics

1:20-1:45  Jay Deveraj (Dow Agrosciences): Improving R&D and academic lab safety through management of change and training

1:45-2:05  Arvind Varma (Professor of ChE, Purdue): Parametric sensitivity and thermal runaway behavior in catalytic fixed-bed reactors

2:05-2:20  Joseph Pekny and James Dietz (Professors, Purdue): Cybersecurity initiative with CISTAR

2:20-2:35  Ed Marszal (Kenexis): PMP project data structure standardization for PHA
2:35-2:45  Zoltan Nagy (Professor of ChE, Purdue): Overview of continuous pharmaceutical manufacturing

2:45-2:55  Linda Wang (Professor of ChE, Purdue): Overview of efficient and safe separations and solvents

2:55-3:05  Osman Basaran (Professor of ChE, Purdue): Overview of coalescence and flow assurance

3:05-3:15  Refreshment break (but continue into next session)

Session 5: Open Discussion to be led by Industrial Representatives (Moderators: R. Mentzer and O. Basaran)

3:15-5:10  Open discussion and needs led by industry reps (10 minutes per large member company, 5 minutes per small member company, and plus 15 minutes total to potential new members)

Session 6: Pitches for New PhD Projects (Moderators: O. Basaran and R. Mentzer)

5:10-6:00  Short pitches by faculty for new PhD projects (~5 minutes per single projects; ~7.5 minutes per multiple projects)

6:00  Adjournment (dinner to follow---see below)

6:30 pm  After conference dinner and discussion (Executive Committee only)
Location: Bistro 501, Lafayette