

**Pitches by faculty for new projects in P2SAC during  
Fall 2018 Conference on December 12**

**Raj Gounder:** New directions in prevention by catalyst design

**Arvind Varma:** Catalyst design and reactor runaway: selective oxidation of alcohols

**Brett Savoie (1):** Molecular property prediction based on scarce data using a novel machine learning framework

**Brett Savoie (2):** High-throughput quantum chemical calculation of Benson group values for reliable thermodynamic characterization

**Zoltan Nagy:** Modeling and uncertainty analysis of dust explosion

**Kingsly Ambrose:** Sensing dust concentration by imaging

**Letian Dou:** Safer materials and processing design for next-generation printed electronics

**Vilas Pol:** Battery safety by materials design

**Carl Laird:** Optimal placement of detectors and new directions driven by systems engineering approaches

**Linda Wang:** Methods to convert polyolefin waste into useful products

**Osman Basaran:** Electrocoalescence: breaking emulsions, oil-water separators, desalters, dehydrators, and more