

Center for Particulate and Surfactant Systems

A National Science Foundation Industry/University Cooperative Research Center (NSF I/UCRC) since 2008



Industrial Advisory Board (IAB) Meeting August 18-19, 2010 Columbia University, New York, NY

~ Tentative Agenda ~

~ Wednesday, August 18, 2010 ~

Davis Auditorium, Schapiro Center, Columbia University

- 1:00 P.M. - 5:45 P.M. Registration (Davis Auditorium Lobby)
- 1:00 P.M. - 1:10 P.M. **Welcome & Introduction**
TBD
- 1:10 P.M. - 1:30 P.M. **I/UCRC Program**
Dr. Denis Gray, NSF
- 1:30 P.M. - 2:10 P.M. **CPaSS Sites - Status & Update**
Dr. Brij M. Moudgil & Dr. P. Somasundaran, CPaSS Directors
- 2:10 P.M. - 4:50 P.M. *Project Updates (Davis Auditorium)*
L.I.F.E. Forms: To be completed in between the presentation slots
- 2:10 P.M. - 2:20 P.M. **Bio/Particulate Systems**
Interactions between Cationic Polymers and Mixtures of Anionic Surfactants: Complex Properties, Phase Diagram and Binding Isotherm (*Dr. Bingquan Li*)
- 2:30 P.M. - 2:40 P.M. Enhanced Photocatalytic Destruction of Microbes on Surfaces (*Dr. Vijay Krishna*)
- 2:50 P.M. - 3:00 P.M. A Fundamental Study of Nanoparticle-Protein Mutual Interactions: Role of Nanoparticle Morphology and Size (*Dr. Irina Chernyshova*)
- 3:10 P.M. - 3:30 P.M. *Networking Break*
- 3:30 P.M. - 3:40 P.M. **Characterization/Processing**
New Methods for the Characterization of Nanoparticles and Correlation with Their Toxicity (*Dr. Xiaohua Fang*)
- 3:50 P.M. - 4:00 P.M. Studying Enzyme / Green-Surfactant Interactions: Minimizing Antagonism while Maximizing Synergies (*Michael Chin*)
- 4:10 P.M. - 4:20 P.M. Particle-Process Analytical Technology (P-PAT) (*Dr. Kevin Powers*)
- 4:30 P.M. - 4:40 P.M. Green Surfactants: Structure, Properties and Performance of Model Green Surfactant Systems (*Jun Wu*)
- 4:50 P.M. - 5:45 P.M. *Poster Session (Davis Auditorium Lobby)*
- 5:45 P.M. - 7:30 P.M. **Dinner (Davis Auditorium Lobby)**

The information shared during the IAB Meeting is confidential and solely for the use of CPaSS Researchers and Industry Members

~ Tentative Agenda ~

~ Thursday, August 19, 2010 ~

Davis Auditorium, Schapiro Center, Columbia University

- 7:30 A.M. - 12:30 P.M. Registration (Davis Auditorium Lobby)
- 7:30 A.M. - 8:30 A.M. Breakfast (Davis Auditorium Lobby)**
- 8:30 A.M. - 11:30 A.M. *Project Updates & New Initiatives (Davis Auditorium)*
L.I.F.E. Forms: To be completed in between the presentation slots
- Dry Systems**
- 8:30 A.M. - 8:40 A.M. Design of Optimum Sampling Plans: 1 - Dry Powders (*Dr. Hassan El-Shall*)
- 8:50 A.M. - 9:00 A.M. Triboelectric Phenomena in Particulate Materials: Role of Particle Size, Surface Properties, and Vapor (*Dr. Scott Brown*)
- 9:10 A.M. - 9:20 A.M. Dispersion In Air of Micron and Nanometer Sized Particulate Systems: Predicting Agglomerate Strength (*Dr. Hassan El-Shall*)
- 9:30 A.M. - 9:50 A.M. Networking Break*
- Wet Systems & New Initiatives**
- 9:50 A.M. - 10:00 A.M. Benchmark Data for Dilute, Turbulent Liquid-Solid Turbulent Flow in the Viscous, Transitional and Collisional Flow Regimes (*Dr. Jennifer Curtis*)
- 10:10 A.M. - 10:20 A.M. Impact of Fine Silicate Minerals on Rheology, Gas Dispersion and Mineral Separation: Micro-Aggregate - Macro-Network Model (*Dr. Murthy Khandrika*)
- 10:30 A.M. - 10:40 A.M. Grinding Aids for Nano-milling using a Stirred Media Mill (*Dr. Parvesh Sharma*)
- 10:50 A.M. - 11:00 A.M. TBD
- 11:10 A.M. - 11:20 A.M. TBD
- 11:30 A.M. - 12:30 P.M. Lunch (Davis Auditorium Lobby)**
- 12:30 P.M. - 3:30 P.M. IAB Executive Meeting (Davis Auditorium) Closed-Door ~ IAB Members Only**
- 3:30 P.M. Summary Remarks & Meeting Adjournment**
Dr. Brij M. Moudgil & Dr. P. Somasundaran, CPaSS Directors