

AEESP Conference
Tuesday, July 28, 2009

Nanotechnology

Session Chairs: Pedro Alvarez and Young-Shin Jun

- 10:15 – 11:00 ***Implications of nanoparticle aggregation state and reactivity***
Mark Wiesner
- The strong influence of nanoparticle surface coatings on aggregation, deposition, and environmental effects of nanoparticles***
Gregory V. Lowry
- 11:00 – 11:30 ***An Integrated Approach Toward Understanding the Environmental Fate, Transport, Toxicity and Occupational Health Hazards of Metal and Metal Oxide Nanomaterials***
Vicki Grassian
- 11:30 – 12:00 ***Fullerenes in aquatic systems: Interactions with biological systems***
Joseph Hughes
- LUNCH
- 1:30 – 2:00 ***Interaction of Fullerene (C₆₀) Nanoparticles with Silica Surfaces: Implications for Nanoparticle Removal in Engineered Systems***
Kai Loon Chen
- 2:00 – 2:30 ***Sustainable Technologies for Arsenic Remediation and Carbon Dioxide Sequestration***
Cafer T. Yavuz
- 2:30 – 3:00 ***Quantum Dot-Microbe Interactions: Ecotoxicological Implications***
Shaily Mahendra and Pedro J.J. Alvarez
- BREAK
- 3:30 – 4:00 ***In-Situ Investigation of Iron Oxide Nanoparticle Evolution at Mineral-Water Interfaces***
Young-Shin Jun, Glenn A. Waychunas, Byeongdu Lee
- 4:00 – 4:30 ***Nanotechnology enabled sensors for pathogens in drinking water***
Pete Vikesland