

TUESDAY June 9

| | Session 1 • Room 163 | Session 2 • Room 101 | Session 3 • Room 162 |
|-------------|--|---|--|
| | Characterization, Detection and Analysis <i>Vachet</i> | Environmental Fate and Transport <i>Henry</i> | Pollution Control and Remediation <i>Gill</i> |
| 1:30 - 2:00 | Edward Heithmar : Single-Particle ICPMS to Characterize Metal-based Nanoparticles in the Environment: Advances and Challenges | Bo Pan : Adsorption of Sulfamethoxazole on Carbon Nanotubes as Affected by Phosphate | Marti Otto : Nanotechnology for Site Remediation |
| 2:00 - 2:30 | Zhengjiang Zhu : Bioavailability and Biodistributions of Functionalized Gold Nanoparticles Using Mass Spectrometry | Emppu Salonen : Solubilization of Carbon Nanomaterials in Soil and Natural Waters: The Role of Humic Acid | Tarek Abdel-Fattah : Multifunctional Nanostructured Materials as Adsorbents for Environmental Remediation |
| 2:30 - 3:00 | Kevin Wepasnick : Quantitative Surface Characterization of Oxidized Carbon Nanotubes | Elsa Vitorge : Mechanisms of Transport and Retention of Silica Nano Particles in Saturated Soils | Warren Layne : Highlights from the International Environmental Nanotechnology Conference: Applications and Implications October 7-9, 2008 |
| | Session 4 • Room 163 Characterization, Detection and Analysis <i>Vachet</i> | Session 5 • Room 101 Bioavailability and Toxicity <i>Arcaro</i> | Session 6 • Room 162 Regulatory and Policy Issues <i>Rowan West</i> |
| 3:30 - 4:00 | Ganesh Rajagopalan : Evaluation of Ensemble Techniques to Facilitate Monitoring Fate of Nanoparticles in Three Southern California Wastewater Effluents | Scott Hall : Acute and Chronic Toxicity of TiO ₂ to Freshwater Aquatic Organisms, and Effects of Organic Carbon on TiO ₂ Bioavailability | Jean Warshaw : Nanotechnology Regulation and the Precautionary Principle |
| 4:00 - 4:30 | Scott Auerbach : Modeling a New Separation Technology Using Microwave-Driven Nanopores | Elijah Petersen : Bioaccumulation Potential of Radioactively Labeled Nanotubes by Terrestrial and Aquatic Organisms | Kathleen Sellers : Nanotechnology: Risk Perception Versus Developing Science |
| 4:30 - 5:00 | Bryant Nelson : Preliminary Characterization of the Interaction Mechanisms of Engineered Nanomaterials with DNA | Jennifer Bouldin : Aqueous Toxicity and Food Chain Transfer of Quantum Dots in Freshwater Algae and <i>Ceriodaphnia dubia</i> | Robert Lee : REACHing for the Stars? The EU's New Chemicals Policy as a Test Bed for Nanotechnology Regulation |

WEDNESDAY June 10

| | Session 7 • Room 163 Green Nanotechnology <i>Gill</i> | Session 8 • Room 101 Advances in Nanotechnology; EPA/STAR Extramural Grants Program <i>Bentkover</i> | Session 9 • Room 162 Bioavailability and Toxicity <i>Nelson</i> | |
|---------------|--|--|--|--|
| 8:30 - 9:00 | Barbara Karn : Green Nanotechnology: It's the Right Ting to Do | Marti Otto : Realizing the Potential of Nanotechnology for Environmental Applications | Dhimiter Bello : Use of Biological Oxidative Stress to Understand and Characterize Exposures to Nanomaterials | |
| 9:00 - 9:30 | John Marino : New 'Green', Scalable Approaches for Purification and Size Separation of Carbon Nanotubes | Diana Aga . Effect of Natural Organic Matter on the Behavior of Quantum Dots in Aquatic Environment | Theodore Henry : Interaction of Aqueous C60 Aggregates with Environmental Contaminants and Toxicological Consequences in Fish | |
| 9:30 - 10:00 | Robert Hurt : Progress in the Design of Carbon Nanotubes for Environmental Health and Safety | Howard Fairbrother . Influence of surface chemistry on the behavior of carbon nanotubes in aquatic environments | Xiaoqi Zhang : Toxicity of Carbon Nanotubes to the Activated Sludge Process: Protective Ability of extracellular polymeric substances | |
| | Session 10 • Room 163 Green Nanotechnology <i>Karn</i> | Session 11 • Room 101 Pollution Control and Remediation <i>Ergas</i> | Session 12 • Room 162 Bioavailability and Toxicity <i>Zhang</i> | Session 13 • Room 165 Environmental Fate and Transport <i>Xing</i> |
| 10:30 - 11:00 | Lindsay Dahlben : Life Cycle Assessment of Developmental Carbon Nanotube Products | Meagan Mauter : Engineered Applications of Carbon Nanotubes in Reverse Osmosis Membranes | Paige Wieczinski : In vitro assessment of the gastrointestinal biodurability of engineered nanomaterials | Pu-Chun Ke : Fate of Synthetic Nanomaterials in Plants and Aquatic Systems |
| 11:00 - 11:30 | Liesje Sintubin : Antimicrobial Bio-nanosilver Produced by <i>Lactobacillus sp</i> | Mike Borda : Advances in nZVI Coupled with Enhanced Bioremediation | Bernd Nowack : Probabilistic Exposure Modeling of Engineered Nanoparticles in the Environment | Seoktae Kang : Microbial Cytotoxicity of Carbon-Based Nanomaterials: Implications for River Water and Wastewater Effluent |
| 11:30 - 12:00 | Kelvin Higa : Isolation and Characterization of Products From Nano Energetic Composites | Nianqiang Wu : Titanium Oxide Nanostructure Photocatalysts for Degradation of Organic Pollutants | Chad Vecitis : Anti-Microbial Kinetics of Carbon Nanotubes | Daohui Lin : Stabilization of Carbon Nanotubes in Fresh Surface Waters |
| | Session 14 • Room 163 | Session 15 • Room 101 | Session 16 • Room 162 | Session 17 • Room 165 |

| | Nanosensors <i>Heithmar</i> | Pollution Control and Remediation <i>Tobiason</i> | Bioavailability and Toxicity <i>Zhang</i> | Environmental Fate and Transport <i>Xing</i> |
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| 1:30 - 2:00 | Zhouying Zhao : Quantum Dot Based Detection of BTEX | Zhong Xiong : In-situ Immobilization of Mercury in Sediment by Stabilized Iron Sulfide (FeS) Nanoparticles | Leila Nyberg : Assessment of the Impact of PEGylated Single-walled Nanotubes (SWNT) in an Anaerobic Environment | Ralf Kaegi : Emission of Silver Nanoparticles from Exterior Facade Coatings |
| 2:00 - 2:30 | K. Krishnamoorthy : Amphiphilic Polymer Nanotubes for Separation and Sensing | Love Sarin : A Nano-Selenium Reactive Barrier Technology for Controlling Mercury Vapor Exposure | Wei Jiang : Bacterial Toxicity of Oxide Nanoparticles and Their Adhesion to Bacteria Cell Walls | Saikat Ghosh : Colloidal Behavior of Three Humic Acids Coated Aluminum Oxide Nanoparticles as Affected by Divalent Cation |
| 2:30 - 3:00 | Avinash Bajaj : Nanoparticle-Polymer and Nanoparticle-Protein Supramolecular Complexes as Biosensors | Benny Chefetz : Removal of Metallic Ions from Water: Plant Adsorption and Microwave Radiation for the Fabrication of Nanometals | Lorin Jakubek : SWNTs Inhibit Normal Physiological Function of Calcium Ion Channels through Yttrium Release | Krishna Reddy : Effects of Different Surface Modifications on Transport of Nanoscale Iron Particles in Porous Media |
| | Session 18 • Room 163 Regulatory and Policy Issues <i>Weber</i> | Session 19 • Room 101 Pollution Control and Remediation <i>Tobiason</i> | Session 20 • Room 162 Bioavailability and Toxicity <i>Nelson</i> | |
| 3:30 - 4:00 | Anne Shatkin : Risk Analysis: State of the Science and Regulatory Implications for Nanotechnology | David Rickerby : Nanotechnological Solutions to Monitor and Treat Drinking Water and Groundwater | Huanhua Wang : Toxicity of nanoparticulate and bulk ZnO, Al ₂ O ₃ and TiO ₂ to the nematode <i>Caenorhabditis elegans</i> | |
| 4:00 - 4:30 | Najm Shamim : Nano-enabled Pesticides, Chemistry, Environmental Fate and Transport Risk Assessments: Regulatory and Scientific Issues | Feng He : Pilot-testing Carboxymethyl Cellulose Stabilized Nanoiron Technology for in-situ Destruction of Chlorinated Solvents at an Alabama Site | Patricia Gillespie : Altered Gene Expression Profiles in Murine Brains Following Exposure to Inhaled Nickel Nanoparticles | |
| 4:30 - 5:00 | Carol Rowan West : A Collaborative Effort to Promote the Safe Development of Nanotechnology in Massachusetts | Subhasis Ghoshal : Synthesis, Characterization and Transport in Porous Media of Surface-Modified Nanoiron Particles | Mark Smith : Discovery of Genes that Mediate Toxicity of Functionalized Gold Nano-Particles | |
| THURSDAY June 11 | | | | |
| | Session 21 • Room 163 Human Health/Environmental Exposure <i>Mundt/Henry</i> | Session 22 • Room 101 Environmental Fate and Transport <i>Pedersen</i> | Session 23 • Room 162 Regulatory and Policy Issues <i>Peck</i> | |
| 8:30 - 9:00 | Christie Sayes : Synergistic nanomaterial features that influence oxidative stress and inflammatory response | Kevin Metz : Quantum Dot Transformation under Simulated Environmental Conditions | Robert Sullivan : California's Approach to Nanomaterials: Information Call-in from Manufacturers | |
| 9:00 - 9:30 | Paul Sarahan : Identifying and Complying with Nanotechnology Workplace Safety Requirements | Rickard Arvidsson : Fate Modeling of Titanium Dioxide Nanoparticles in the Water Compartment by Colloid Chemistry | Sharon Weber : Massachusetts Government Efforts on Nanotechnology and Other Emerging Contaminants | |
| 9:30 - 10:00 | Agnes Kane : Potential Human Health Impacts of Nanotechnology | Jessica Coleman : Assessing the Fate and Effects of Nano Aluminum Oxide in the Terrestrial Invertebrate, <i>Eisenia fetida</i> | Sam Lipson : Local Nanotechnology Policymaking | |
| | Session 24 • Room 163 Human Health/Environmental Exposure <i>Mundt/Henry</i> | Session 25 • Room 101 Environmental Fate and Transport <i>Van Arsdale</i> | Session 26 • Room 162 Regulatory and Policy Issues <i>Reibstein</i> | |
| 10:30 - 11:00 | Annette Santamaria : Nanomaterials in consumer products - do they pose a hazard? | Billy Smith : Influence of Surface Chemistry on the Deposition and Transport Properties of Carbon Nanotubes | Steffen Foss Hansen : MultiCriteria Mapping of Stakeholder Preferences in Regulation of Nanotechnology and Nanomaterials | |
| 11:00 - 11:30 | Jackie Isaacs : Societal Impacts of engineered particles in our air, water and food | Hamid Mashayekhi : Aggregation Behavior of C60 Fullerene Water Suspension in the Presence of Natural Organic Materials | Nina Horne : A Comprehensive Approach to Nanotechnology Policy | |
| 11:30 - 12:00 | Panel Discussion | Tanapon Phenrat : Semi-Empirical Correlation to Predict the Collision Efficiency of Natural Organic Matter and Polymer-coated Nanoparticles in Porous Media | Todd Rees : Regulatory and Industry Acceptance of nZVI Technology | |