

**ICEIN 2011 - EPA Nano Grantees Conference, Poster Session**  
**Poster Session - Monday, May 9th, 5:40-7:00 pm**

**Fate, Transport and Transformation**

1	Souhail	Al-Abed	Redistribution of a protective alumina layer on sunscreen nanoparticles subjected to swimming pool water
2	Lee	Bryant	The effect of nanoparticles on redox gradients at the sediment-water interface
3	Matthew	Chan	Transport, stability and deposition of functionalized gold nanoparticles in porous media
4	Charles-Francois	de Lannoy	Optimizing the characteristics of CNT-reinforced PSf ultrafiltration membranes
5	Amrika	Deonarine	Precipitation and agregation of metal sulfide nanoparticles in the presence of dissolved natural organic matter
6	Fatou	Diagne	Preventing fouling of microfiltration membranes: Effect of bacteria concentration, nanoAg and natural organic matter
7	Rebecca	French	Identifying the crystallinity, phase, and arsenic uptake of the nanomineral schwertmannite using analytical HRTEM
8	Ernest	Hotze	Influence of coating type and particle type on nanoparticle transport in the environment
9	Helen	Hsu-Kim	Early-stage precipitation kinetics of ZnS nanoparticles with a low molecular weight thiol
10	David	Jassby	The Impact of Aggregate Size and Structure on the Photocatalytic Properties of TiO <sub>2</sub> and ZnO Nanoparticles
11	Jonathan	Judy	The relative importance of hydrodynamic diameter, hydrophobicity, and surface charge density to the bioavailability of nanoparticles to plants
12	Teresa	Kirschling	Microbial Bioavailability of Polymer Coatings on Engineered Nanomaterials
13	Megan	Leitch	Use of Nanotechnology Patents as a Predictor for Environmental Release of Manufactured Nanomaterials
14	Stacey	Louie	Determination of layer thickness of polymeric coatings on nanoparticles by the soft particle electrokinetic model
15	P. Ariette	Schierz	Fate and transport of single walled carbon nanotubes in wetland ecosystems: First results of the CEINT mesocosm
16	Jee Eun	Song	Hydrophobic Interactions Increase Attachment of Gum Arabic and PVP Coated Ag Nanoparticles to Hydrophobic Surfaces
17	Andrea	Tiwari	Oxidation of C <sub>60</sub> aerosol by ozone
18	Yao	Xiao	Characterization of in-situ surface hydrophobicity of nanoparticles
19	Lijuan	Zhao	Transport and retention behavior of ZnO nanoparticles in saturated soil media

**Toxicity**

20	Najealicka	Armstrong	Exposure to silver nanoparticles affects biological system through inhibition of copper homeostasis
21	Mariah	Arnold	Physical and toxicological study on cerium oxide nanoparticles in <i>Caenorhabditis elegans</i>
22	Carla	Cherchi	Alteration of biochemical pools assemblage in <i>A. variabilis</i> induced by titanium dioxide nanomaterials exposure
23	April	Gu	Nanogenotoxicity of DNA Damage-comparative Study between Prokaryotes And Eukaryotes
24	Shannon K.	Hanna	Impacts of zinc oxide nanoparticles on the Mediterranean mussel ( <i>Mytilus galloprovincialis</i> )
25	Sarah	Hutchinson	An evaluation of the influence of size and radiation in silver nanoparticle toxicity
26	Jacqueline	Jordan	Cytotoxic Response of Cultured Neuronal Cells to manganese oxide nanoparticles and ionic manganese compounds
27	Zhiqiang	Li	Obstruction of cytotoxicity by natural organic matter coatings on titanium dioxide nanoparticles

28	Sijie	Lin	<i>In vivo</i> screening of transition metal containing engineered nanoparticles in zebrafish
29	Huan	Meng	Aspect Ratio Determines the Quantity of Mesoporous Silica Nanoparticle Uptake by a Rac1-dependant Macropinocytosis Mechanism
30	Stacy	Pustulka	Bacterial Biofilm Susceptibility to Silver Nanoparticles and Silver Ion
31	Alia	Servin	Effects of TiO <sub>2</sub> nanoparticles on Cucumber ( <i>Cucumis sativas</i> )
32	Courtney R.	Thomas	Elucidating Toxic Mechanisms Using Trojan Horse Nanoparticles
33	Lisa	Truong	Surface Group of Gold Nanoparticles Induce Unique Gene Expression Changes in Embryonic Zebrafish
34	Xiang	Wang	Assessment and Control of the Dispersion and Biological Effects of MWCNTs in Mammalian Cell Culture Media
35	Sijing	Xiong	In vitro cytotoxicity of Poly(d,l-lactic-co-glycolic acid) (PLGA) nanoparticles with different particle size.
36	Xinyu	Yang	The mechanism of silver nanoparticle toxicity is dependent on size and surface coating in <i>Caenorhabditis elegans</i>

### Ecotoxicity

37	Adeyemi	Adeleye	A condensed EH&S reference for nanotechnology startups (CERNS)
38	Christina	Arnaout	Inhibition of nitrite production in <i>Nitrosomonas europaea</i> in the presence of silver nanoparticles
39	Elise	Fairbairn	Metal Oxide Nanomaterials and Marine Embryo Development
40	Yuan	Ge	Taxa-specific response of soil bacteria to TiO <sub>2</sub> and ZnO nanoparticles
41	Samantha	Gilbert	The effects of silver nanoparticles on ROS production and developmental processes in marine invertebrates
42	Kim	Newton	The Influence of Dissolved Organic Matter and Coating on the Toxicity of Silver Nanoparticles in <i>Daphnia magna</i>
43	Ashley	Parks	Determination of SWNT bioaccumulation in estuarine benthic organisms using two methods: <sup>14</sup> C-radiolabeled SWNT and Near Infrared Fluorescence Spectroscopy (NIRF) of pristine semiconducting SWNT
44	Allison	Rick	Assessment of silver nanoparticles in terrestrial environments: Effects on denitrifying soil bacteria
45	Sharona	Sokolow	Towards a Unified Protocol for Suspension of Nanomaterials in Environmentally-relevant Media

### Risk Assessment

46	Samina	Azad	Evaluation of Carbon Nanotube Content in Waste Water
47	Christian E. H.	Beaudrie	Benefits, risks, bias, and nanomaterial regulation: Results of an expert survey
48	Yingwen	Cheng	Synthesis, Characterization of Graphene Oxide and Its Application in Environmental Related Research
49	Mary	Collins	Nanoremediation: Are There Equity Concerns?
50	Gwen	D'Arcangelis	Environmental Risk Perception: Surveying Public Response to Nanomaterials in Energy, Medical, and Military Applications
51	Taimur	Hassan	A platform for nanomaterials research and collaboration
52	Christine	Hendren	Streamlined model of nanomaterial fate in wastewater treatment: A Monte Carlo approach
53	Xingmao	Jiang	Synthesis and characterization of well-defined silica and titania nanoparticles for studies of nanotoxicity
54	Yu-Ting	Liu	Microbial Reduction of Non-Crystalline Al/Fe-Hydroxide Co-Precipitates
55	Stella	Marinakos	Synthesis and Characterization of Core A Nanomaterials
56	Kanokwan	Nontapot	Characterization of the ultra-small Si nanocrystals using analytical ultracentrifugation
57	Alexander	Richter	Synthesis of biodegradable nanoparticles by using environmentally friendly water/water based processes
58	Mathieu	Therezien	Modeling nanoparticles aggregation and fate in environmental waters
59	Kristin	Yamada	Nanomaterial prioritization ranking methodology and nano regulatory policy