

2017 CEINT Annual Internal Meeting
 Thursday April 27th and Friday April 28th



Thursday April 27 th		
7:30	<i>Bus leaves at 7:30 from Hotel</i>	
8:00	8:30	<i>Continental Breakfast at Meeting</i>
8:30	12:00	CEINT Scholar Steering Committee Session – Searle Center primary conference room (independent agenda)
8:30	12:00	Mesocosm Meeting – Searle Center Breakout Room E (this is for the mesocosm research team, and also has an independent agenda)
12:00	1:00	<i>Lunch</i>
1:00	1:15	Director’s Welcome – Mark Wiesner
Research Presentations and Discussion Sessions		
1:15	2:30	Session 1: Nanomaterial Fate in Complex Systems
Presentations	Janie Cooper	Investigating the size-dependent fate of ceria nanoparticles in wetland mesocosms
	Amalia Turner	Bringing the attachment efficiency functional assay for predicting nanoparticle mobility to complex media
	Sayako Inoue	Overview of ceria diesel catalysts before and after engine burn, and the transport and fate of a range of ceria NPs in small and large mesocosms
	Astrid Avellan	Long-term behavior of nanoparticles after a 9-month low dose chronic addition in simulated freshwater wetlands
	Nicholas Geitner	Multiscale Perspective of Nanomaterial Co-Contamination
Open Discussion	Moderator: Mike Hochella	Panelists: Lee Ferguson, Helen Hsu-Kim, Greg Lowry, and session presenters
2:30	2:45	<i>Break</i>
2:45	4:00	Session 2: Nanomaterial Fate in Controlled Systems
	Sónia Rodrigues	Evaluation of methods for pore water sampling to accurately characterize fate of metallic nanoparticles and dissolved ions in soils
	Xiaoyu Gao	Dissolution of CuO NP in Lufa standard soils
	Hossein Safa	Transport and fate of GO in porous media
	Xuehong (Keira) Liu	Detection and quantification of single-walled carbon nanotubes in aerosol matrices using metal finger-printing approach
	Matt Chan	Investigating Mono- and Divalent Cation Induced Aggregation of Gold Nanoparticles in Aqueous Environment via Surface-Enhanced Raman Spectroscopy
Open Discussion	Moderator: Peter Vikesland	Panelists: Mark Wiesner, Kim Jones, Lee Ferguson, and session presenters
4:00	5:00	Session 3: Nanoinformatics and Data Integration
Presentations	Jaleesia Amos	The CEINT Nanoinformatics Knowledge Commons: An Overview of Scope, Structure, Curation and Analytical Tool Development
	Lila Thornton	Estimating Exposure to Nanomaterials in Consumer Products: Data Needs and Outlook
	Nancy Birkner	NanoReg ISA-TAB-Nano Modification to Engage a Broader Scientific Network
Open Discussion	Moderator: Christine Hendren	Panelists: Greg Lowry, Mark Wiesner, Camille de Garidel-Thoron, and session presenters
5:00	6:45	<i>Poster Session and Cocktail Hour (Bus to leave at 7pm sharp from Searle Center to Hotel)</i>

Meeting Location: Searle Center at Duke University Medical Center, 10 Searle Center Drive, Durham, NC 27710
Hotel: Hilton Garden Inn – Durham, 2102 W. Main Street, Durham, North Carolina 27705 - (919) 286-0778

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7:30	Bus leaves at 7:30 from Hotel	
8:00	8:45	Continental Breakfast at Meeting
8:45	9:00	CSSC Leadership report out of Thursday CSSC session outcomes
Research presentations and discussion sessions		
9:00	10:15	Session 4: Nano-enabled Applications
Presentations	Camille de Garidel-Thoron	Nanomaterials and the Safer by Design approach for new markets
	Nicolas Chabert	Efficiency of Acidithiobacillus ferrooxidans for biocathode design
	Danielle Slomberg	Eco-design of Sunscreen Using titanium dioxide Nanoparticles (Eco-SUN)
	Jenna Young	Cost comparisons of novel membrane concentration processes for applications in rare earth separation
	Amy Olson	Controlled Deposition of Nano-Aerosols onto Graphene Sensor
Open Discussion	Moderator: Mark Wiesner	Panelists: Linsey Marr, Jérôme Rose, Achouak Wafa, and session presenters
10:15	10:30	Break
10:30	12:00	Session 5: Biouptake, Bioavailability, and Effects in Controlled Systems
Presentations	Clarisse Liné	Application of a high-throughput biomarker set on tomato plants exposed in carbon nanotube contaminated soil
	Alex Bertuccio	Copper Sink Effects of Humic acid on <i>E. coli</i> in the Presence of Copper Ions
	Joe Moore	Elucidating the mechanism of CuO ENM bacterial toxicity and shedding light on appropriate ion controls in nanotoxicity studies
	Eleanor Spielman-Sun	Impact of Surface Charge on Cerium Oxide Nanoparticle Uptake and Translocation by wheat (<i>Triticum aestivum</i>)
	Rafael Trevisan	Insights into the effects of titanium suboxide, gold and polystyrene nanoparticles in fish based on developmental toxicity, bioenergetics and oxidative stress
	Jinfen Pan	Behavioural and biochemical alterations in the clam <i>Ruditapes philippinarum</i> exposed to nano-silver: Role of organic matter
	Andrew Barrick	Nanomaterial toxicity through a safer by design approach on <i>Mytilus Edulis</i> hemocytes
	Stephanie Laughton	Coating Effects on Nanoparticle Bioavailability to Plants
Open Discussion	Moderator: Greg Lowry	Panelists: Catherine Mouneyrac, Claudia Gunsch, and session presenters
12:00	1:00	Lunch
1:00	2:30	Session 6: Biouptake, Bioavailability, and Effects in Complex Systems
Presentations	Abdoul Karim Kabore	Impact of Cerium Dioxide nanoparticles from diesel additives on wastewater treatment and biosolid valorization
	Marie Simonin	Chronic exposure of engineered nanomaterials in eutrophic conditions increases frequency and magnitude of algal blooms in freshwater wetlands
	Vanessa Koehle-Divo	Mesocosm study: integrated molecular approach in <i>C. fluminea</i> exposed to nCeO ₂
	Ben Castellon	Effects of exposure duration on nanoparticle uptake and deputation in mosquitofish in wetlands mesocosms
	Brittany Perrotta	Copper and gold nanoparticle influence on consumer mediated nutrient recycling in freshwater snails
Open Discussion	Moderator: Cole Matson	Panelists: Emily Bernhardt, Mark Wiesner, Laure Giamberini, and session presenters
2:30	Adjourn – Note: Secure Own Transportation from Meeting	

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