2015 CEINT Annual Internal Meeting, May 13th & 14th

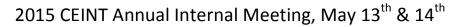


Wednesda	ay May 13 th					
7:30		Meet in Hotel Lobby - Bus LEAVES at 7:45 sharp				
8:00	8:15	Continental Breakfast in Atrium				
8:15	9:00	Director's welcome and introductory remarks – Mark Wiesner				
9:00	9:05	Agenda overview and administrivia – Christine Hendren				
Research presentations and discussions						
9:05 10:05		Session 1: Nanomaterial Design, Synthesis, Characterization and Detection				
Presentati	ions	Marjorie Willner High Throughput Optofluidic SERS Interrogation				
		Xuehong Liu Metal Fingerprinting Approach to Quantify Single-walled Carbon Nanotube				
		Rui Serra Maia Structure and Physico-Chemical Characterization of a Platinum Nanocatalyst Material				
		Astrid Avellan Tunable Ecofriendly Alumino-germanate Nanotubes as a Model Compound for Ecotoxicity Studies				
		Matthew Chan High Sensitivity Detection and Characterization of Dissolved Species – Gold Nanoparticle Interaction in Water via Surface Enhanced Raman Spectroscopy				
Panel-led	Discussion	Moderator: Jie Liu Panelists: Marc Michel, Peter Vikesland, Jerome Rose				
10:05	10:15	Break				
10:15	11:15	Session 2: Realistic Exposures				
Presentati	ions	Theresa Dankovich Release and Transformations of Silver Nanoparticles in Polymeric Nanocomposites Exposed to Environmental Scenarios				
		Manuel Montaño Release of Polymer Additives and Plasticizers from Polymer Nanocomposites Containing CNTs				
		James Dale Characterization and Ecosystem Impacts of Cerium Emitted from n-ceria Diesel Fuel-borne Catalysts				
		Mathieu Therezien Exposure to NPs via Heterogeneous Aggregation				
		Yi Yang The Importance of a Nanoscience Approach in the Understanding of Major Aqueous Contamination Scenarios: A Case				
		Study from a Recent Coal Ash Spill				
Panel-led	Discussion	Moderator: Linsey Marr Panelists: Lee Ferguson, Ben Colman, Jean-Yves Bottero				
11:15	12:15	Session 3: Fate, Transport and Transformations				
Presentati	ions	S. M. Hossein Abtahi Fate and Transport of Elongated Shape Gold Nanorods in Aquatic Matrices				
		Shauna-Gaye Campbell Mobility of Transformed Nanomaterials through Porous Media				
		Kaiqi Fang Possible Reactions for CuS in the Sediment				
		Xiaoyu Gao Dissolution of NPs in Soil				
		Amy Dale Stream Dynamics and Chemical Transformations Control the Environmental Fate of Ag and ZnO Engineered NPs				
Panel-led	Discussion	Moderator: Greg Lowry Panelists: Kim Jones, Gordon Brown, Mark Wiesner				
12:15	1:15	Lunch				

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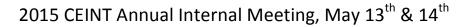


Wednesday May 13 th Continued						
1:15 2:15 Session 4: Bioavailability, Biouptake & Bioaccumulation						
Presentations		Chuanjia Jiang Effects of Natural Organic Matter on the Dissolution, Aggregation and Uptake Kinetics of Copper Oxide Nanoparticles				
		Carol Johnson Mercury Methylation: The 3D Relationship between Bioavailability, Bacterial Gene Expression, and Methylmercury Production				
		ayet Phytoavailability of Nanoparticles, Speciation and Modelisation				
		John Stegemeier Transformations of Engineered Nanoparticles in Natural Systems and Interactions with Plant Roots				
		Amalia Turner An Integrated Approach to Predicting Bioaccumulation of Nanomaterials in Plants				
Panel-led Discussion		Moderator: Jason Unrine Panelists: Greg Lowry, Melanie Auffan, Helen Hsu-Kim				
2:15	2:50	Session 5: Life Cycle Thinking and Risk Assessment				
Presentations		Paramjeet Pati Life Cycle Considerations for Sustainable Nanotechnology				
		Marina Vance Nanotechnology in the Real World: Redeveloping the Nanomaterial Consumer Products Inventory				
		Véronique Adam Assessing the Environmental Impacts and Risks of TiO ₂ ENMs using Bayesian Networks at a Site-Specific Scale				
Panel-led Discussion		Moderator: Liz Casman Panelists: Peter Vikesland, Mark Wiesner, Jean-Yves Bottero				
2:50	3:00	Break				
Special sessions						
3:00	6:30	A. All students, post-docs, scholars – CSSC Sessions, including 5:00 cocktail hour with hors d'oeuvres (see separate agenda)				
3:00	5:15	B. Faculty: Mesocosm planning and data integration discussions				
5:30		Bus transportation to Faculty dinner leaving from Science Drive Traffic Circle				
6:30		Bus transportation from CSSC Sessions to Hotel leaving from Science Drive Traffic Circle				





Thursday	Thursday May 14 rd					
7:30			Meet in Hotel Lobby - Bus LEAVES at 7:45 sharp			
8:00	8:45	Continental Breakfast in Atrium				
8:45	9:00	CSSC Leadership report out of Thursday CSSC session outcomes				
Research	presentation	ns and discussions				
9:00	10:20	Session 6: Organismal Impacts of Nanomaterials				
Presentat	tions	Alex Bertuccio	Natural Organic Matter Increases Tolerance to Silver Nanoparticles			
		Danielle Gorka	Effect of Oxidation Time on Winged-Carbon Nanotube Phytotoxicity			
		Stuart Lichtenbert	Sulfidated Silver Nanoparticles Induce Toxicogenomic Effects Distinct from Pristine Silver Nanoparticles and Silver Ions			
		Eric McGivney	TiO ₂ Nanoparticles Prevent <i>B. subtilis</i> Cell Lysis in Low Nutrient Conditions			
		Temitope Adegboye	Impacts of Graphene Oxide on Bacterial Growth, Biofilm Formation, and Microbial Community Function			
		Mohamed Hamidat	Relationships Between ENMs' Design and their Environmental Impact			
		Anye Wamucho	Multigenerational Effect of Silver Nanoparticles on Reproduction and Genomic Stability in <i>C.elegans</i>			
		Vignesh Ramchandran Clustering Analysis for Pulmonary Toxicity Studies in Rodents				
Panel-led Discussion Moderator: Jason Unrine Panelists: Joel Meyer, Kelvin Gregory, Jeremy Gernand			rine Panelists: Joel Meyer, Kelvin Gregory, Jeremy Gernand			
10:20	10:35	Break				
10:35	11:50	Session 7: Nanomater	ial Impacts in Natural and Engineered Ecosystems			
Presentat	tions	Carley Gwin N	Microbial Community Analysis of Activated Sludge SBRs Receiving AgNPs using Ion Torrent			
		Joe Moore Differential Impacts of Pristine and Transformed Ag NPs and Cu NPs and Cu Ion on CEINT Mesocosm Surficial Sediment Microbial Communities				
		Daniel Ross E	Effects of Nanomaterials on Bacterial Transformation Efficiency			
		Christopher Ward N	Microbial Community Responses to Acute and Chronic Environmental Loading of Ag Nanoparticles in Wetland Mesocosms			
		Moncie Wright F	Presence of Grazing Fish Can Amplify the Negative Effects of TiO₂ Nanoparticles on Stream Periphyton Communities			
Panel-led	Discussion	Moderator: Cole Matson Panelists: Claudia Gunsch, Ben Colman, Greg Lowry				
11:50	1:00	Lunch				
1:00	2:00	Session 8: Data Integra	ation and Analysis			
		Overview of the Data Integration Team Goals and Activities – Christine Hendren				
		Introduction to CEINT NanoInformatics Knowledge Commons – Sandra Karcher				
Presentations		Sandra Karcher	Getting from Data to Knowledge in CEINT NIKC – Interactive Queries			
		Yuan Tian	Utilizing the Web-Based CEINT Data Sharing System to Network Within the Center			
Panel-led	Discussion	Moderator: Christine	Hendren Panelists: Greg Lowry, Mark Wiesner			





Thursday May 14 rd Continued							
2:00	2:45	Session 9: Translational Nanoscience: Implications of CEINT Research for Water Treatment Processes					
		Should the Drinking Water Industry be Concerned about Nanomaterials in our Water? – Greg Lowry					
Presentations		Danna Shan	Removal of Carban	mazepine and Tetracycline from Water by Magnetic Carbonaceous Nano-adsorbents Prepared by Ball-milling			
		Michael Vargas	Role of Filter Medi	ia on Nanoscale Formation of Colloidal Manganese Oxides During Drinking Water Treatment			
Panel-led Discussion		Moderator: Marl	k Wiesner	Panelists: Mitsuhiro Murayama, Claudia Gunsch, Liz Casman			
2:45	3:00	Director's Wrap-	up and Adjourn				