

Tuesday July 26 th						
		CSSC Arrives				
3:00	6:00	CSSC-planned programming				
6:00	onward	Happy hour and hors d'oeurves				
Wednesd	lay July 27 th					
8:00	8:20	Director's Welcome – Mark Wiesner				
8:20	8:30	Agenda Description & Administrivia – Christine Hendren				
Research	Presentation an	Discussion Sessions				
8:30	10:00	Session 1: Nanoparticles and Bacteria - Applications and Implications				
Presentat	tions	Temitope Adegboye Impacts of silver nanoparticle transformation on Pseudomonas Aeruginosa GFP Biofilm				
		Jacob Metch Activated sludge microbial community response to variations in gold nanoparticle morphology and surface coating				
		Yaolin Fennell Antibiofouling studies on graphine oxide modified polyethersulfone membranes				
		Alex Bertuccio Effects of natural organic matter on bacterial viability and surface colonization in the presence of Ag+ and AgNPs				
Panel-led	Discussion	Moderator: Kim Jones Panelists: Bob Tilton, Claudia Gunsch				
10:00	10:15	Break				
10:15	10:45	Session 2: Modeling approaches to forecasting nanomaterial behavior				
		Nick Geitner Molecular dynamics screening for nano trojan horses				
		Mathieu Therezien Heterogeneous aggregation and viral inactivation modeling				
Panel-led	Discussion	Moderator: Liz Casman Panelists: Mark Wiesner, Greg Lowry				
10:45	12:00	12:00 Session 3: Fate, Transport and Transformations				
Presentat	tions	Nick Geitner Alpha for understanding trophic transfer and transport				
		Amalia Turner Functional assays to predict nanomaterial mobility and phytoävailability in soils				
		Xiaoyu Gao Time and nanoparticle concentration affect the extractability of Cu from CuO-NP amended soil				
		Danielle Gorka Understanding the shape-based phytotoxicity of silver nanomaterials				
Panel-led	Discussion	Moderator: Mark Wiesner Panelists: Greg Lowry, Jie Liu, Jason Unrine				
** Extended time to allow for a post-discussion-panel for Center-wide Facilitated Brainstorming Session on Functional Assays						
12:00	1:00	Lunch				



Wednesday .	July 27 th C	ontinued		
1:00	1:45	Session 4: Cellular and Organismal Interactions – Applications and Implications		
Presentation	S	Anye Wamucho Investigating multigenerational effects of silver nanoparticles on genomic instability in <i>Caenorhabditis elegans</i>		
		Laura Maurer Silver nanoparticles induce mitochondrial toxicity in Caenorhabditis elegans		
		S.M.Hossein Abtahi Fate, transport, and organismal uptake of gold nanorods		
		Stuart Lichtenberg Chitosan nanoparticles as carriers of dsRNA		
Panel-led Discussion		Moderator: Jason Unrine Panelists: Joel Meyer, Olga Tsyusko, David Hinton		
1:45	2:15	Session 5: Ecosystem Effects		
Presentations		Marie Simonin Eutrophication and nanopesticide interact to reduce ecosystem productivity and alter microbial functioning in wetland mesocosms		
		Brittany Perrotta Effects of environmentally relevant TiO ₂ NP concentrations on periphyton under snail grazing pressure in stream microcosms		
Panel-led Discussion		Moderator: Emily Bernhardt Panelists: Ben Colman, Ryan King, Cole Matson		
2:15	2:30	Break		
Special sessions				
2:30	5:00	Schicciano Side A: Mesocosm Team Working Session (those attending this have received separate communication)		
2:30	5:00	Schicciano Side B: Group Discussions (for all non-mesocosm meeting attendees):		
		 Exploring the experimental design trade-offs in selecting media characteristics for harmonized research across studies Other topics of interest TBD 		
5:00	5:30	Break		
5:30	7:00	Poster Session and Cocktail Hour		
7:30		Bus transportation to Hotel leaving from Science Drive Traffic Circle		



Thursday.	July 281	Thursday July 28th					
8:00	Meet in Hotel Lobby - Bus LEAVES at 8:00 sharp						
8:15	9:00	Continental Breakfast at Meeting					
8:45	9:00	CSSC Leadership report out of Thursday CSSC session outcomes					
Research p	Research presentations and discussions						
9:00	10:10	Session 6: Nano	material Characterization				
Presentati	ons k	Ceira Liu	Separation and analysis of single walled carbon nanotubes in estuarine sediments using density gradient ultracentrifugation with NIRF and ICP-MS				
	P	Alexandria Hoeher	Examining the structure of amorphous calcium phosphate				
	S	arah Ulrich	Investigating biogenic Mn-oxide nanominerals with electron energy loss spectroscopy (EELS)				
	N	Natt Chan	Utilizing low frequency surface enhanced Raman spectroscopy to characterize gold nanoparticles interaction with aqueous halides				
	C	Corliss Johnson	Investigation of properties of engineered nanomaterials through characterization techniques				
	١	laresh Kumar	Sulfidation of iron oxide and hydroxide nanoparticles				
		ane Cooper	Investigating nanoceria concentration and degree of homoäggregation in natural waters by traditional and single particle ICP-MS				
Panel-led I	Discuss	ion Moderator	: Helen Hsu-Kim Panelists: Bob Tilton, Mark Wiesner, Gordon Brown				
10:10	10:45	Session 7: Fate a	and Transport of Nanomaterials				
Presentati	ons	Chang Liu	Controlled Evaluation the surfaces coating effects on Ag nanoparticles dissolution				
		Hossein Safa	Fate and transport of titanium dioxide silver and gold nanoparticles in saturated natural soil				
		Benjamin Castel	lon Environmental fate and transport of titanium dioxide nanoparticles in municipal wastewater effluent in outdoor stream mesocosms				
Panel-led I	Discuss	ion Moderator	: Peter Vikesland Panelists: Kim Jones, Greg Lowry, Mark Wiesner				
10:45	11:00		Break				
11:00	12:30	Session 8: Evalu	ating Nanomaterials in and from Real Products				
Presentati	ons	Manuel Montan	Release of bisphenol A and polymer additives from polymer-CNT nanocomposites				
		Jacelyn Rice	Assessing the potential risk and benefit of nano-enabled water treatment membranes				
		Jingjing Li	Electrowetting on membranes				
		James Dale	Transformation of cerium oxide from a diesel fuel additive and its implications				
		Seth Guldin	Nanoscale precipitate in environmentally degradable aluminum sacrificial anodes for oilfield industry application				
		Nathan Bossa	Cellulose nanocrystal/nZVI nanocomposites to groundwater remediation				
Panel-led Discussion Moderator: Greg Lowry Panelists: Mark Wiesner, Helen Hsu-Kim							
** Extended time to allow for a post-discussion-panel for Center-wide Facilitated Brainstorming Session on Product Releases							
12:30	1:30		Lunch				



Thursday July 28 th Continued							
1:30	2:30	Session 9: Data Integration and Nanoinformatics					
Presentati	ions	Greg Lowry	Visualization tool for correlating nanomaterial properties and biological responses in Zebrafish				
		Lila Thornton	NaKnowBase at EPA				
		Christine Hendren	CEINT NanoInformatics Knowledge Commons (NIKC) and global nanoinformatics efforts				
Panel-led Discuss		on Moderator: Christine Hendren	Panelists: Mark Wiesner, Greg Lowry				
2:30	2:40	CSSC Report Out – Nick Geitner					
2:40	3:00 CEINT Next Steps and Future Evolution – Ma		n – Mark Wiesner				
3:00			Adjourn				