



**Center for the Environmental Implications of NanoTechnology 2019 Meeting**

September 13<sup>th</sup>, 2019

Duke University

Sarah P. Duke Gardens • 420 Anderson St, Durham, NC 27708 • Park in Surface Lot at Duke Gardens Entrance

If staying at Hilton Garden Inn, please speak with them the night before to arrange shuttle transportation

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8:30 – 9:00 AM	Continental breakfast
9:00 – 10:20 AM	<p><b>Mark Wiesner:</b> Nanomaterials: Not the next asbestos or What 20 years of nanomaterial research has taught us</p> <p><b>Greg Lowry:</b> Theme 1 (Part 2) Fate and transport of nanomaterials in plants</p> <p><b>Christine Hendren:</b> NanoEHS research as a pilot project in convergence science</p> <p><b>Nicholas Geitner:</b> Alpha: What have we learned?</p> <p><b>Ethan Hicks:</b> Modeling bacteriophage-induced disinfection of <i>Escherichia coli</i> utilizing particle aggregation kinetics</p> <p><b>Joana Sipe:</b> Exposure and toxic effects of MWCNTs released from polymer products</p>
10:20 – 10:35 AM	Break
10:35 – 12:00 PM	<p><b>Jerome Rose:</b> Mapping our learning on nanomaterials to prepare for environmental transitions</p> <p><b>Thilo Hofman:</b> Moving from nanomaterials to microplastics: Refuse to repeat the same mistakes</p> <p><b>Will Boyes:</b> Overview of nanotechnology EHS research at EPA: Changes and new directions</p> <p><b>Liz Casman:</b> NP fate and transport modeling, risk assessment, and regulation</p> <p><b>Yilin Zhang:</b> Temperature and pH responsive star polymers as nano-carriers for In vivo agrochemical delivery</p> <p><b>Danielle Slomberg:</b> Impact of particles related to energy production on environmental and human health</p>
12:00 – 12:45 PM	Lunch
12:45 – 1:55 PM	<p><b>Linsey Marr:</b> A gigasecond perspective on nanoparticles in the atmosphere</p> <p><b>Helen Hsu-Kim:</b> Illuminating the connections between the environmental nanosciences and the trace element biogeochemical sciences</p> <p><b>Rafael Trevisan:</b> PAH sorption to nanoplastics and the Trojan Horse effect as drivers of mitochondrial toxicity in early-life stage zebrafish</p> <p><b>Huiyuan Guo:</b> Nanoprobes for surface-enhanced Raman spectroscopy (SERS) based pH sensing in confined microenvironments</p> <p><b>Chang Liu:</b> Controlled dissolution kinetics study of silver nanoparticle: the role of particle size</p>
1:55 – 2:10 PM	Break
2:10 – 3:30 PM	<p><b>Joel Meyer:</b> What have we learned about (mostly silver) nanomaterial toxicity in the <i>Caenorhabditis elegans</i> model?</p> <p><b>Cole Matson:</b> Nanoparticles in mesocosms: Fate and transport, bioavailability, and ecosystem function</p> <p><b>David Hinton:</b> Abraded MWCNT-embedded 3D printed nanocomposites toxicity in Japanese medaka (<i>Oryzias latipes</i>)</p> <p><b>Melissa Chernick:</b> Anchoring liver responses after nanocomposite exposure</p>

**Zhao (Joanna) Wang:** Different effects of Cu and Au engineered nanoparticles on aquatic microbial communities in wetland mesocosms

3:30 – 4:00 PM

Group brainstorm: team papers to write; future collaborations

4:00 PM

Adjourn

5:00 PM

Informal meet-up in Downtown Durham for anyone who wants to go for happy hour & dinner