

NanoDays 2003

Sunday, October 12, 2003	
7:00 - 9:00 PM	<p>Panel Session: Societal, Ethical, and Environmental Implications of Nanotechnology</p> <ul style="list-style-type: none"> • Neal Lane James A. Baker III Institute for Public Policy and Department of Physics and Astronomy, Rice University • David Berube Department of English, University of South Carolina • Michael Gorman Department of Systems and Information Engineering, University of Virginia • Tracy Hester Bracewell & Patterson, L.L.P. • Pat Roy Mooney The ETC Group
9:00 PM - 10:00 PM	Reception
Monday, October 13, 2003	
8:00 - 8:25 AM	-- Continental Breakfast --
8:25 - 8:30 AM	<p>Welcoming Remarks Vicki Colvin Director, CBEN; Department of Chemistry, Rice University</p>
Session 1: Societal and Ethical Implications of Nanotechnology	
8:30 - 9:00 AM	<p>"Societal and Ethical Implications of Nanotechnology: A Framework for Interdisciplinary Collaboration" Michael Gorman Department of Systems and Information Engineering, University of Virginia</p>
9:00 - 9:30 AM	<p>"SEIN Research: Just Smoke and Mirrors?" David Berube Department of English, University of South Carolina</p>
9:30 - 10:00 AM	<p>"New Issues, Old Tools: How Existing Environmental Laws Affect Nanotechnology" Tracy Hester Bracewell & Patterson, L.L.P.</p>
10:00 - 10:30 AM	<p>"Societal Implications of Nanotechnology: Assessing Public Trust in Nanotechnology" Steven C. Currall Jones Graduate School of Management, Rice University</p>
10:30 - 10:45 AM	BREAK

Session 2: Health Implications of Nanotechnology

10:45 - 11:15 AM	<p>"What Do We Know About the Pulmonary Hazards of Ultrafine (Nano) Particles and Carbon Nanotubes? Studies in Rats and Relevance of These Findings for Humans"</p> <p>David Warheit DuPont Haskell Laboratory</p>
11:15 - 11:45 AM	<p>"The Ubiquitous Ultrafines: Does the Size of Air Pollution Particles Matter?"</p> <p>Anthony Seaton Department of Environmental and Occupational Medicine, University of Aberdeen</p>
11:45 AM - 12:45 PM	LUNCH

Session 2: Health Implications of Nanotechnology (Continued)

12:45 - 1:15 PM	<p>"Exposure Routes for Nanomaterials: Developing the Science Needed for Risk Assessment"</p> <p>Joseph Hughes Department of Civil & Environmental Engineering, Georgia Institute of Technology</p>
1:15 - 1:45 PM	<p>"The Environmental Chemistry of Fullerenes"</p> <p>Vicki Colvin Department of Chemistry, Rice University</p>
1:45 - 2:00 PM	BREAK

Session 3: Bioengineering Applications of Nanotechnology

2:00 - 2:30 PM	<p>"Nanoshell-Mediated Cancer Therapy"</p> <p>Jennifer West Department of Bioengineering, Rice University</p>
2:30 - 3:00 PM	<p>"Metal Nanoshells: Applications for Molecular Imaging"</p> <p>Christopher Loo Department of Bioengineering, Rice University</p>
3:00 - 3:30 PM	<p>"Poly(Propylene Fumarate)-Based Nanocomposites for Bone Tissue Engineering"</p> <p>Adam Horch Department of Bioengineering, Rice University</p>
3:30 - 3:45 PM	BREAK
3:45 - 4:15 PM	<p>"Carbon Nanotubes: A New Fluorophore for Near-Infrared Imaging Applications"</p> <p>R. Bruce Weisman Department of Chemistry, Rice University</p>
4:15 - 4:45 PM	<p>"Fluid Electric Force Microscopy for Nanometer Scale Charge Density Mapping in Biological Systems"</p> <p>Jason Hafner Department of Physics and Astronomy, Rice University</p>
4:45 - 5:00 PM	BREAK

Evening Activities

5:00 - 6:00 PM	Transportation to St. Arnolds Brewery (You must register for conference to reserve a spot on the bus.)
6:00 - 9:00 PM	Dinner/Poster Session

Tuesday, October 14, 2003

8:00 - 8:30 AM	-- Continental Breakfast --
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Session 4: Environmental Implications of Nanotechnology

8:30 - 9:00 AM	"Transport of Nanomaterials in Porous Materials" Mark Wiesner Department of Civil & Environmental Engineering, Rice University
9:00 - 9:30 AM	"Adsorption and Desorption of Hydrocarbons and Heavy Metals from C₆₀ and Anatase Particles" Mason Tomson Department of Civil & Environmental Engineering, Rice University
9:30 - 10:00 AM	"Dissolution Kinetics of Nanocrystals: A Challenge" Andreas Luttgge Department of Earth Science, Rice University
10:00 - 10:30 AM	"Aquatic Toxicity Testing for Environmental Impacts of Nanoparticles" Eva Oberdorster Department of Biology, Southern Methodist University
10:30 - 10:45 AM	BREAK

Session 5: Environmental Engineering Applications of Nanotechnology

10:45 - 11:15 AM	"Nanostructured Membranes for Water Treatment" Mark Wiesner Department of Civil & Environmental Engineering, Rice University
11:15 - 11:45 AM	"Controlling Surface Chemistry of Oxide Membranes" Andrew Barron Department of Chemistry, Rice University
11:45 AM- 12:15 PM	"Engineering Nanoparticles for Environmental Remediation Applications" Michael Wong Department of Chemical Engineering, Rice University

Special CBEN, CNST, and Rice Alliance Session

12:15 PM - 1:00 PM	LUNCH
1:00 - 2:00 PM	"When Small is Huge: Technology Futures: Nanotechnology and Accelerating Change" Steve Jurvetson Draper Fisher Jurvetson
2:00 - 2:15 PM	BREAK

Session 6: Nanomaterials

2:15 - 2:45 PM	"Protein-Gold Nanoparticle Interactions and Their Effects on Protein Function" Michelle Calabretta Department of Biochemistry and Cell Biology, Rice University
2:45 - 3:15 PM	"Coating and Exposing SWNTs" Andrew Barron Department of Chemistry, Rice University
3:15 - 3:45 PM	"Nearly-One-Dimensional Materials" Boris Yakobson Department of Materials Science, Rice University
3:45 PM	ADJOURN

http://cben.rice.edu/events.cfm?doc_id=5024