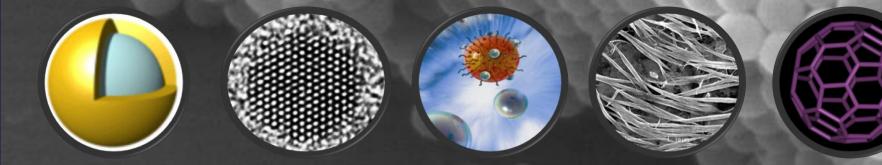
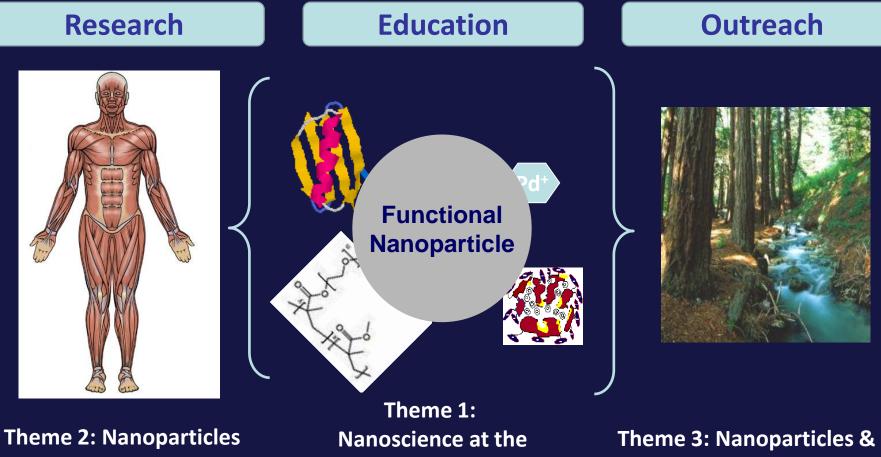
Nanoinformatics Resources for Nano Environmental, Health and Safety



Dr. Kristen M. Kulinowski Department of Chemistry Center for Biological and Environmental Nanotechnology International Council on Nanotechnology Rice University

Center for Biological & Environmental Nanotechnology



for Bioengineering

Wet/Dry Interface

Environmental Engineering





Established in 2001



International Council on Nanotechnology

INCLUSIVE

Multistakeholder cooperation

GLOBAL

International perspective



TECHNICAL

PROACTIVE

Grounded in science

Stewards for sustainability

What is Known about Nano Risks?



News Digest Rss <u>Archives</u>

Comparison of the Toxicity of Silver, Gold and Platinum Nanoparticles in Developing Zebrafish Embryos (Meridian Institute) Meridian News Release EHS Database Entry 18 June 2010

Taking the NanoPulse --Toxic Substance Meets Poison Thinking (Industry Week)

Items of Interest Rss <u>Archives</u>

Webinar - July 9, 2010 -Inviting US national interested parties for input on Draft CEN/ISO TS Labeling of manufactured nano-objects Webinar Information and Registration 17 June 2010

Just how risky can nanoparticles in sunscreens be? Friends of the Earth respond (2020 Science GoodNanoGuide NanoEHS Database EHS Database Analysis Tool ICON Backgrounders ICON Reports Current Practices Survey Research Needs Assessment

ICON News Rss <u>Archives - Event</u> <u>Archives - News</u>

Nanotechnology and Public Health: A free webinar (ICON Blog) ICON Blog Post

http://ICON.rice.edu

Comprehensive repository of news and information about nano environmental, health and safety impacts

6,000 average monthly visits; 1,100 mailing list registrants from 41 countries



The Virtual Journal of Nanotechnology Environment, Health and Safety

HOT PAPER: 'Nuoleation of protein fibrillation by nanoparticles,' Linse, S., C. Cabaleiro-Lago, Xue, W.-F., Lynch, I., Lindman, S., Thulin, E., Radford, S. E., Dawson, K. A. (2007). <u>Proceedings of the</u> <u>National Academy of Sciences of the United States of America</u> XXX/2000; XOX.

This work explores the role that nanoparticles play in accelerating the rate of a process called protein fibrillation, which has been linked to any/iold diseases. Any/iold diseases are a broad class of aliments that result when any/iold proteins mistoid and form insoluble fibrous plaques (fibrils) that deposit in the tissues of the body. Linse et al. noted an increased rate of protein fibrillation when beta 2-microglobulin, an any/iold protein associated with complications from kidney dialysis, was put into solution with nanoparticles. Four different types of nanoparticles (copolymer particles of N-iso-prop/lacrylamide (NIFAN) and N-terb-butylacrylamide (BAN), cerium oxide particles, CdSe or CdSe/ZhS quantum dots and multi-walled carbon nanotubes) each accelerated the production of small seeds upon which fibrils form most effectively. However this study did not determine that nanoparticles can cause human disease.

For a general overview on nanoparticles and amyloid diseases, see here.

For questions and answers about nanoparticles and anyiold diseases, see here.

More Information.

Virtual Journal of NanoEHS

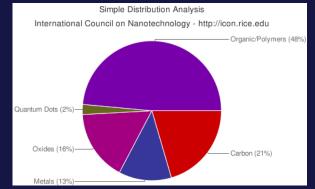
Comprehensive collection of abstracts related to nano-EHS research. Fully searchable, indexed

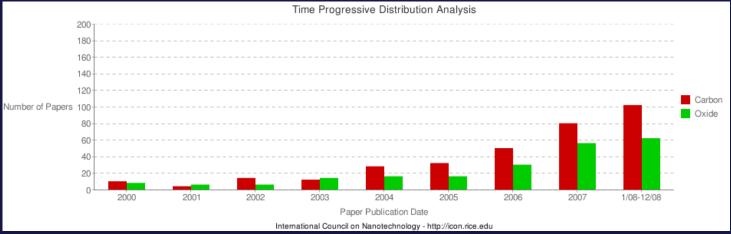
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Enabling real-time analyses of the NanoEHS literature



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The GoodNanoGuide is a collaboration platform designed to enhance the ability of experts to exchange ideas on how best to handle nanomaterials in an occupational setting. It is meant to be an interactive forum that fills the need for up-to-date information about current good workplace practices, highlighting new practices as they develop.

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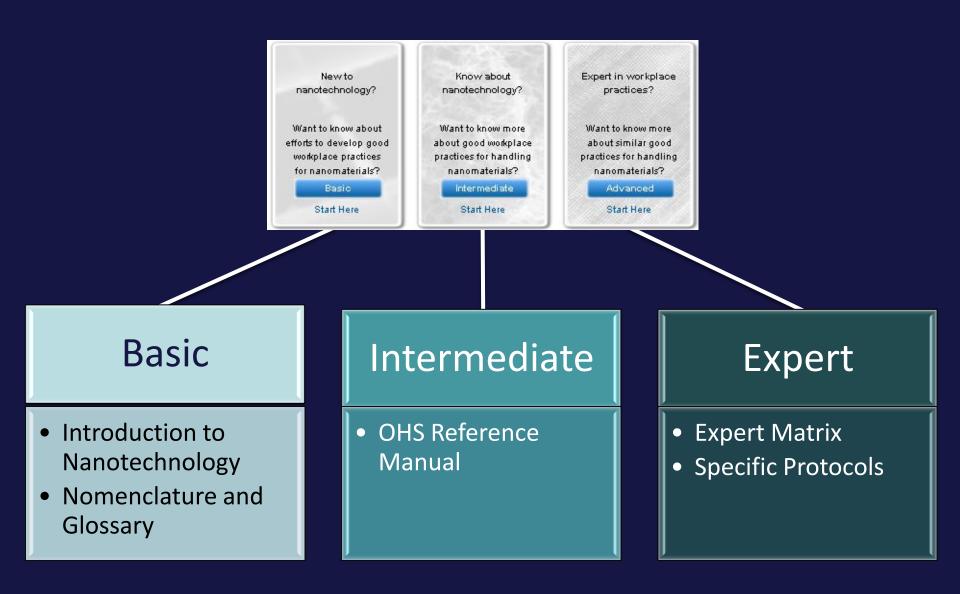
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