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**Title:** Informatics for Nanotechnology Safety and Health

**Author Block:** M. Hoover, NIOSH, Morgantown, WV.

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# 2005 Program Planner

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**Session** RT 221**Number:****Session Title:** The Occupational Health and Safety Professional's Role in the Emerging Nanotechnology Industry**Session Type:** Roundtable**Session Start:** 5/24/2005 2:00:00 PM**Session End:** 5/24/2005 5:00:00 PM**Location:** Hilton Anaheim California C**Description:** "Sponsored by the AIHA Aerosol Technology Committee

Nanoscience is a promising and rapidly advancing technological activity sponsored by governments and business entities throughout the world. Nanotechnology allows researchers and manufacturers to utilize matter at the level of single atoms, or small groups of atoms, to construct new or enhanced materials. Potential applications include sensors, catalysts, conductors, microchips, processors, medical devices, and pollutant adsorption matrices. Particle sizes are, by definition, one hundred billionth of a meter (100 nm) down to the size of atoms (about 0.2 nm). Nanotechnology, however, may present significant hazards to the environment and people who are potentially exposed to the fabricated nanomaterials. Toxicological studies have indicated that exponential increases in surface areas per unit mass of nanomaterials can dramatically change their chemical reactivities as compared to the parent compounds. It is imperative that Health and Safety Professionals develop an appreciation for these concerns and address them in a timely manner. This presentation is designed to initiate the process by assembling experts who are on the forefront of the issues and qualified to share their insights."

**Presentations:** David N. Easton -- [Arranger](#) David N. Easton -- [Moderator](#) Peter C. Raynor -- [Monitor](#) Aleksandr B. Stefaniak -- [Monitor](#) Kathie Lavaty -- [Monitor](#) Kevin Ausman -- [A. Nanotechnology: Overview and Relevance to Environmental Health](#) Andrew D. Maynard -- [Nanotechnology and Strategies to Ensure Occupational Health](#) Mark D. Hoover -- [Informatics for Nanotechnology Safety and Health](#)

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- Robert F. Wheaton, Jr. -- [Academic Research Program Development and Implementation](#)
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2700 Prosperity Drive, Suite 250  
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