

**Presentation to NIST/ANSI
Workshop on
Standards for Nanotechnology
An Industry Perspective**

Washington, DC
December 13, 2011

Topics to be covered

- ▶ How does your organization use nanotechnology standards?
 - ▶ What impact would nanotechnology standards have on your organization and your business processes, and what are your nanotechnology standards needs?
 - ▶ What are the greatest challenges to nanotechnology standards development and use?
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Use of Nanotechnology Standards

- ▶ Terminology – Presents a “language” that make communications about nano topics more consistent and less susceptible to misunderstanding.
 - ▶ Metrology – There are an increasing number of tools and methods that can generate information that is more broadly understood and accepted
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Future Use of Nanotechnology Standards

- ▶ Facilitating communications between scientific disciplines – e.g ISO TR 13014 relating P-Chem elements to tox tests.
 - ▶ Possible foundation for regulatory evaluations e.g. collaboration with OECD WPMN on methods that may be used to develop regulatory data
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Impact of Nanotech Standards on the Chemical Industry

- ▶ Improved communication tools for use up and down the value chain based on more common terminology
 - ▶ Improved consistency and comparability of data
 - ▶ Supporting environment, health and safety “best practices”
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Nanotechnology Standards Needs

- ▶ More metrology standards for materials other than carbon-based materials
 - ▶ Standards that can obtain essential property information using economical methods and instruments
 - ▶ There is a significant need for the industrial community to speak up about their needs and to participate in Standards Development Organizations
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Challenges for Nanotech Standards Development & Use

- ▶ Developing standards that have broad acceptance.
 - ▶ Development of standards that facilitate commerce
 - ▶ Development of standards that support regulatory needs and do so in an economical way
 - ▶ Finding volunteers to help develop standards
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