

OECD Working Party on Manufactured Nanomaterials

Jim Willis, Chair

<http://www.oecd.org>

Feb. 26-28, 2008

***International Workshop on Documentary Standards for
Measurement and Characterization in Nanotechnologies***

WPMN

- Established in September, 2006
- Three meetings to date:
 - **October 26-27, 2006**
 - **April 26-28, 2007**
 - **November 28-30, 2007**
 - **Next meeting: 11-13 June 2008**
 - **5th meeting: 4-6 March 2009**
- Objective: *To promote international co-operation in health and environmental safety related aspects of manufactured nanomaterials, in order to assist in their safe development*
- Works through the implementation of (8) projects

Who attends the WPMN?

Countries:

Australia, Austria, Belgium, Canada, Denmark, European Commission, Finland, France, Germany, Italy, Japan, Korea, Netherlands, New Zealand, Norway, Poland, Slovakia, Spain, Sweden, Switzerland, United Kingdom, United States

Observers:

- Argentina, China, Israel, Thailand, Brazil, India, Russia
- ISO, WHO, UNEP
- BIAC, eNGOs (ED and FOE), TUAC, WWIC (past)
- ICAPO request

US Workgroup members:

- EPA (OPPT, OPP, ORD), CEQ, OSTP, State, NIH, FDA, NIOSH, OSHA, USDA, NIEHS, USPTO, DOC, CIA, NIST, CPSC

Project 1: OECD Database on Safety Research

- Objective: *to develop a global resource, which identifies research projects that address environmental, human health and safety (EHS) issues associated with manufactured nanomaterials. This will include research projects which are planned, underway or completed.*
- Chair: Australia
- Status:
 - Prototype database available January, 2008
 - Data entry -10 weeks ~ March-May
 - Rollout on or before WPMN-4

Project 2: Research Strategies on Manufactured Nanomaterials

- Objective: *to exchange information and identify common research needs to address human health and environmental safety issues associated with manufactured nanomaterials, and to undertake to meet those research needs.*
- Chair: Germany
- Status:
 - Initial research matrix complete
 - Next steps to focus on strategies

Project 3: Safety Testing of a Representative Set of Manufactured Nanomaterials

- Objective: *to agree and test a representative set of manufactured nanomaterials (MN) using appropriate test methods.*
- Co-Chairs: USA and European Community
- Status:
 - Testing program agreed encompassing 14 nanomaterials and a range of endpoints.
 - Sponsorship program agreed to/guidance manual under development

Project 4 : Manufactured Nanomaterials and Test Guidelines

- Objectives:
 - *To review existing OECD Test Guidelines for adequacy in addressing manufactured nanomaterials.*
 - *To identify the need for development of new or revision of existing test guidelines.*
- Co-chairs: USA and European Commission
- Status:
 - Reviewing existing guidelines for potential applicability
 - Working in 4 subgroups
 - Physical-Chemical Properties
 - Biotic Effects
 - Bioaccumulation and Degradation
 - Health Effects

Project 5: Co-operation on Voluntary Schemes and Regulatory Programmes

- Objectives:
 - *To identify common elements of the various information gathering initiatives, in place or planned.*
 - *To identify applicable current and proposed regulatory regimes and how they address information requirements, hazard identification, risk assessment and exposure mitigation/ risk management of manufactured nanomaterials.*
 - *To share information on existing or proposed guidance documents on practices to reduce occupational or environmental exposure to or releases of manufactured nanomaterials .*
- Chair: Canada
- Status:
 - Initial comparisons conducted
 - Developing a model “template”
 - Developing a clearinghouse for “International Sharing and Comparison of Data on Manufactured Nanomaterials”

Project 6: Co-operation on Risk Assessment

- Objective: *to evaluate risk assessment approaches for manufactured nanomaterials through information exchange and identify opportunities to strengthen and enhance risk assessment capacity.*
- Chair: UK
- Status: Reviewing results of survey.

Project 7: Alternative Methods in Nano Toxicology

- New project to evaluate and, where applicable, validate in vitro and other methodologies
- Chair: UK
- Status:
 - Invitation to has been circulated
 - Needs to integrate with SG3 and SG4
 - Testing needs to be considered during sponsorship.
 - Report on available methods expected by WPMN-4

Project 8: Exposure measurements and Exposure Mitigation

- New project to develop guidance on exposure measurements and exposure mitigation, with an initial focus on occupational settings.
- Chair: USA
- Status:
 - Invitation to participate has been circulated