

# U.S. Consumer Product Safety Commission

## MEETING LOG

**PRODUCT:** Nanotechnology

**SUBJECT:** ISO/TC 229 Nanotechnologies Working Group and U.S. TAG General Virtual Meetings to Discuss Current Projects and Potential New Work Item Proposals (NWIPs)

**LOCATION:** Hybrid, American National Standards Institute's (ANSI) Headquarters, Washington, DC

**DATE:** March 11-12, 2024

**ENTRY DATE:** March 26, 2024

**LOG ENTRY SOURCE:** Joanna Matheson (HSTR)

**COMMISSION ATTENDEES:** Sayon Robinson (LSC), Rick Brown (LSC)

**NON-COMMISSION ATTENDEES:** Contact ANSI for a complete list.

### MEETING SUMMARY:

ISO Technical Committee 229 (ISO TC/229) focuses on standardization in the field of nanotechnologies, understanding and control of matter and processes at the nanoscale where the onset of size-dependent phenomena usually enables novel applications, as well as use of nanoscale materials to create improved materials, devices, and systems that exploit these new properties. Specific working groups address the development of standards and guides for terminology and nomenclature; metrology and instrumentation; test methodologies; modelling and simulations; and science-based health, safety, and environmental practices.

On Monday March 11, 2024, working groups of the US Technical Advisory Group (US TAG) to ISO Technical Committee 229 (ISO TC/229, Nanotechnology) met to continue the development of ISO/TC 229 projects in advance of the April 2024 international hybrid meeting, which will be held in Sao Paulo, Brazil. The general meeting of the US TAG was held on Tuesday March 12, 2024, during which the lead for each US TAG ISO/TC 229 working group provided a summary of the Monday session discussions.

ISO TC/229 encourages proposals for new projects and for revisions of existing standards when a determination has been made that the standard remains relevant. ISO TC/229 voted to approve with the revision of TS13121, Nanomaterial risk evaluation. This project will be led by the US and staff will monitor its progress.

Staff remain interested in two projects related to respiratory masks, one proposed for the development of test methods for the detection of nano-objects released from respiratory masks under different working conditions and the second on the reusability of respiratory masks. These projects are under review by working group members; staff will continue to monitor the development of these projects as well as preliminary work items on nanosensors and on biotransformation of metal oxide nanomaterials in organs.

Work continues on the new project on the characterization and quantification of functional groups and coatings on nano-objects.

ISO/TC 229 voted to approve the registration, as a final draft international standard, of the US co-led project *In vitro acute nanoparticle phototoxicity assay*.

Work continues on standards for terminology and definitions for advanced materials, quantum phenomenon in nanotechnology, carbon nano-objects and nanomanufacturing. In addition, multiple projects continue on the development of standards on liposomes, graphene, silica, nano-object characterization, carbon nanotubes, and nanocellulose as well as on nanocomposite materials for insulating.