

**U.S. Consumer Product Safety Commission**  
**LOG OF MEETING**

**SUBJECT:** Meeting of the U.S. TAG to ISO/TC 229 (Nanotechnology)

**DATE OF MEETING:** March 25-26, 2020

**PLACE OF MEETING:** Teleconference

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

**COMMISSION ATTENDEES:** Yeon Kim (ES), Isaac Mireku (LS), Treye Thomas (EXHR), Rick Uhl (LS), Joanna Matheson (HSTR)

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

**SUMMARY OF MEETING:**

On Wednesday as well as Thursday morning, March 25-26, 2020, each of the US Technical Advisory Group (US TAG) to ISO Technical Committee 229 (ISO TC/229, Nanotechnology) working groups met for a half-day via teleconference to continue the development of ISO/TC 229 projects. In addition, the working groups discussed potential work items for future activities as well as efforts for outreach.

On Thursday afternoon, March 26, 2020, the lead for each US TAG ISO/TC 229 working group provided a summary of the Wednesday or Thursday morning session discussions. The US TAG remains active in ISO standard development including work on guides on standard terms and definitions for specific nanomaterials (e.g., liposomes) as well as a framework for general nomenclature, standards on nanomaterial specifications (e.g., superparamagnetic beads composed of nanoparticles, nanoparticles in powdered form, nanostructured porous silica and alumina), standards on characterizing nanomaterials (e.g, carbon nanotube and carbon nanofiber aerosols, cellulose nanocrystals, nano objects and materials that contain them, amorphous carbon, graphene, graphene oxide flakes) as well as methodology characterization (e.g., thermogravimetric analysis, ellipsometry, positron annihilation, SMLS,

asymmetrical-flow and centrifugal field-flow fractionation, use of TEM and SEM for particle size and size distribution, in different matrices [e.g., composites]) and in different forms [e.g., powder, liquid], screening methods for toxicity (e.g., 3D cell culture high throughput screening system, 2D and 3D cell cultures assessing nanoparticle cell uptake, in vitro phototoxicity, photocatalytic activity, label-free impedance technology, inhalation toxicity tests) and nanomaterial applications (e.g., anti-bacterial textiles, nanosensors for biomolecule detection, and nanosuspensions containing clay nanoplatelets for quorum quenching), and on a technical report, U.S. co-led with Health Canada, on the evaluation of methods for assessing the release of nanomaterials from commercial nanomaterial-containing polymer composites. There was a call for volunteer U.S. experts to review draft standards and technical reports. The interim working group 3 meetings that were to be held face-to-face in Washington, DC, in May 2020, have been cancelled, but work is underway to schedule truncated webmeetings during May that will focus on high priority projects, that is, work items that are near publication.