

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

**SUBJECT: Meeting of the US TAG to ISO TC/229**

**DATE OF MEETING: March 21-22, 2018**

**LOG ENTRY SOURCE: Joanna Matheson, HS**

**DATE OF LOG ENTRY: March 26, 2018**

**LOCATION: The American Chemistry Council (Washington, DC)**

**CPSC ATTENDEE(S): Joanna Matheson HS; John Gordon, HS**

**NON-CPSC ATTENDEE(S): Heather Benko (ANSI), Shaun Clancy (Evonik Corp), Angela Hight-Walker (NIST), Katherine Tyner (FDA), Nina Veas, Eric Grulke, Andras Vladar, Vince Hackley (NIST), Vladimir Murashov (NIOSH), Karen Murphy (NIST), Ray David, Suresh Shenoy (Donaldson), Anil Patri (FDA), Mohammad Ali (Nanophase), Terrance Barkan (Graphene Council), Ajit Jillavenkatesa (NIST), Alexandria Stanton (EPA), Scott Brown, Gene West, Jenn Marshall (NIST), David Ensor and Anil Patri (FDA). This does not represent everyone participating in the meetings, please contact Heather Benko at ANSI for the complete list.**

**SUMMARY OF MEETING: On Wednesday, March 21, 2018, each of the US Technical Advisory Group (US TAG) to ISO Technical Committee 229 (ISO TC/229) working groups met simultaneously to review current work items that were under**

ballot, projects that are nearing completion, new work items, and what is expected to be on the agenda for the upcoming joint meeting in Ottawa, Canada. Participants were present in the room or teleconferenced. In addition, the working groups discussed potential work items for future activities as well as efforts for outreach.

On Thursday, March 22, 2018, Shaun Clancy provided an overview of Tuesday's ANSI Nanotechnology Panel meeting on graphene. There was broad agreement on standardization needs, but no specifics were assembled yet. Highlights included whether existing non-graphene standards could be adapted to be graphene specific by creating bridging documents. Potential graphene technical reports could be key graphene terms beyond those found in general ISO documents, conductivity properties, material handling, batch-to-batch variability, and a TR on what has been done up to this date. Ajit Jilla provided an update on the 2018 meeting of the ISO/TC 229 Chairman's Advisory Group, held on March 7, 2018, which was to discuss the IEC TC113 proposal in creating a joint working group on graphene with ISO. Heather Benko outlined the updates to ISO/IEC directives, which included directives on official membership to ISO TC/229 working groups, required number of participants in working groups, adherence to agendas, remote participation and references to precedence of national laws.

The lead for each US TAG ISO/TC 229 working group provided a summary of the Wednesday sessions discussions. The US TAG remains active in ISO standard development including work on a general plain language guide, guides on standard terms and definitions for specific nanomaterials (e.g., cellulose, graphene, carbon nano-objects) and nano-manufacturing, standards on nanomaterial specifications (e.g., magnetic nanoparticles, nanoclay, liposomes), standards on characterizing nanomaterials (e.g, graphene) as well as methodology characterization (e.g., thermogravimetric analysis, SMLS, x-ray spectrometry, field-flow fractionation, use of TEM and SEM for particle size and size distribution, in different matrices [e.g., metals in water samples, mixed dust industrial environment]), and screening methods for toxicity (e.g., 3D cells, *Artemia sp* for aquatic toxicity; airborne toxicity, toxicokinetic studies, photocatalytic activity, label-free impedance technology).