U.S. Consumer Product Safety Commission

LOG OF MEETING

SUBJECT: 2023 U.S.-EU NanoEHS Communities of Research Workshop

DATE OF MEETING: November 16, 2023 – November 17, 2023

PLACE OF MEETING: National Nanotechnology Coordination Office (NNCO), 470 L'Enfant Plaza SW, Suite 8001, Washington, DC 20024

LOG ENTRY SOURCE: Joanna Matheson (HSTR)

COMMISSION ATTENDEES: Joanna Matheson (HSTR), Treye Thomas (EXHR)

NON-COMMISSION ATTENDEES: Contact NNCO for a complete list.

SUMMARY OF MEETING:

The purpose of the workshop was to further promote and deepen the U.S.-EU collaboration on nanosafety research. This workshop discussed lessons learned, shared information on emerging research trends, and connected the U.S.-EU communities to nanosafety research in other geographic regions.

The workshop agenda included an interactive cross-disciplinary exercise on nanoplastics, linking featured talks to data needs for human toxicity and ecotoxicity from nanoplastic exposures.

A keynote address by Tae Lee from the Korea Research Institute of Standards and Science introduced the facility, their cooperative studies with other international nanomaterial institutes (*e.g.,* NIST), and highlighted nanoplastic characterization on ocean samples. Each Communities of Research (COR)[EcoToxicity, Human Toxicity, Risk Management & Control, Exposure Assessment, Risk Assessment, Characterization, Databases and Modeling] provided highlights of 2023 collaborative work as well as research themes for 2024. Lengthier presentations were provided by the CORs on nanotechnology for sustainable food and agriculture systems,

characterization of plastics and resins, exposure to nanoplastics in the environment, and connecting data resources through common metadata.

A common theme from the workshop was the need for quality data, access to that data, and use of the data in models to meet existing and emerging data gaps. The EU is using the EPA developed Ontosearcher tool along with existing EU systems (*e.g.*, Nanocommons and NanoSolveIT) for data management, data sharing and data analysis.

With the focus on nanoplastics, a need was noted to distinguish nanoplastics from the overall plastics community. EU participants spoke about the successes of nanoEHS and how these approaches are being used as a model for other areas such as advanced materials and advanced technologies.