Advanced Materials – Nanoscience and Advanced Materials
Specialty Section SOT Perspective

ANSI-NSP Workshop
August 19-20, 2020

Jenny R. Roberts, PhD
National Institute for Occupational Safety and Health
Nanotechnology Research Center, Toxicology and Internal Dose Critical Area Coordinator

Society of Toxicology, Nanoscience and Advanced Materials Specialty Section, Current President
• The SOT Nanotoxicology Specialty Section Changed Its Name to Nanoscience and Advanced Materials Specialty Section (NAMSS) in 2019 – The Initiative, Concerns, and Questions

• Exposure to Nanomaterials, Materials that Incorporate Nanomaterials, and Process-Derived/Incidental Nanomaterials or Ultrafine Particles are Still the Major Focus of Current Research

• Understanding the Relationship of Material Properties and Toxicity is a Critical Goal

• In Vitro and In Vivo Approaches to Hazard Identification of New Materials Remain the Same

• Needs
  • A clear definition of what constitutes an advanced material.
  • Do newly emerging materials have new material properties that need to be considered in relationship to toxicity?
  • What is the exposure of concern?

• Recent Activity: NAMSS Virtual Symposium June 18, 2020. Toxicological Exposure and Risk Assessment of Emissions from 3D Printers – Chairs: Treye Thomas US CPSC and Yong Qian NIOSH