



Contribution ID: 282

Type: Invited Speaker

The progress of Taiwan nano-EHS regulations and researches

Monday 28 November 2016 13:40 (20 minutes)

Taiwan Nanotechnology Program has been launched from 2003 up to now in which nano-EHS program remains one of the main projects collaborated by many different agencies, including Taiwan MOST, EPA, ILOSH, MOHW, BSMI, universities and research institutes (ITRI, NHRI etc.). Through inter-agency efforts, progress has been made in core facility establishment for nanomaterial characterization, certification of nanoproducts as nanoMark products, promulgation of regulations for registration of new chemicals, issuing guidances for the Assessment of Hazardous Chemicals and CCB (Chemicals Control Banding) Management of Chemicals, and the Registration of Nanomaterial-containing Food utensils, Containers and Packages...etc. It can be said that the commercialization of nanotechnology-related products is being emerged and promoted while it is being regulated at well.

To support nanoproduct commercialization and regulation, research progress has been made in the development of Nanoscale Reference Material, exposure assessment of nanotechnology workplaces, development of personal nanoparticle samplers, development of highly Raman-enhancing substrates based on silver nanoparticle arrays with tunable gaps, in-vitro studies using impedance-based Real-Time Cell Analysis detection platform, in-vivo studies using the whole body exposure chamber and efficient powder dispersion system etc. The progress in regulations and researches has been documented and archived in Taiwan Nanotechnology EHS Database (http://ehs.epa.gov.tw/Home/EN_F_Home_Index) which serves as the platform for the exchange of information and communication among different stakeholders and for the promotion of collaboration among international communities.

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Session Classification: Hornbill 1

Track Classification: Nano-safety