



NanoMONITOR is partly funded by the European Commission Life+ with grant agreement LIFE14 ENV/ES/000662

Safe Nanotechnology – Exposure assessment, risk management and regulatory challenges

Lancaster (UK), 24 October 2017
Lancaster House Hotel

Agenda

09:00 - 09:30 Registration and Reception of the Attendees

09:30 - 09:40 Welcome (The REACH Centre)

Session 1. Introduction: exposure and risk assessment

09:40 – 10:10 LIFE NanoMONITOR: new tools to support the monitoring and characterization of the concentration of nanomaterials in workplaces, urban areas and the environment. (Carlos Fito - ITENE)

10:10 – 10:30 Challenges addressed by the project: monitoring the concentration of nanomaterials in urban areas and industrial zones (Maida Domat - ITENE)

10:30 - 11:00 The NanoFASE Project – exposure assessment for the wider environment (Lee Walker – CEH)

11:00 - 11:15 Coffee break

Session 2: Developing tools to promote a safe working environment and promote knowledge on indoor nano-pollutants

11:15 - 11:45 Exposure scenario library and data on the concentration of engineered nanomaterials in workplaces (Carlos Fito - ITENE).

11:45 – 12:15 Gather real-time information of the concentration of ENMS in outdoor areas (CEAM)

12:15 - 12:45 Software demonstration (Axon)

12:45 - 14:00 Lunch & possibility to look at the station/software

Session 3: Regulatory Challenges

14:00 – 14:45 Nanomaterials and REACH: Overcoming regulatory barriers to commercialization (Neil Hunt, The REACH Centre)

14:45 - 15:15 Characterisation of nanomaterials for REACH and beyond (Escubed)

15:15 - 15:30 Coffee break

15:30 - 16:15 Nanomaterials risk assessment (Neil Hunt, The REACH Centre)

16:15 - 16:30 Conclusions



Workshop purpose

This workshop is a forum for nanotechnology industry, researchers and regulators to discuss nanotechnology safety, the use of measured data on the concentration of engineered nanomaterials (ENMs) to support risk assessment, the implementation of safe exposure scenarios, and its regulatory challenges. The event will be hosted by the members of the NanoMONITOR consortium.

Exposure to both naturally occurring and anthropomorphic particulates affects everyone, with some exposures linked to serious health hazards in both humans and the environment. As the uses of ENMs increase in both volume and breadth, it is important to have the technology available to measure exposure to nanomaterials in the workplace and the environment. These will allow the identification and tracking of emerging risks, support the development of robust exposure modelling tools and allow users to prove compliance with regulatory obligations. It is the goal of the NanoMONITOR project to develop a robust sampling and analysing station that will allow the real-time measurement of nanomaterials. NanoMONITOR provides scientific based solutions to support the risk assessment of nanomaterials on a regulatory basis, including critical issues such as environmental, occupational and consumer exposure to ENMs, environmental release and fate in the life cycle and product value chains, and human health impacts of ENMs.

The workshop will introduce the exposure and risks arising from exposure to particulates including nanomaterials. It will then discuss the current status of the NanoMONITOR project allowing delegates to have the opportunity to test and provide feed-back on the prototype and the data acquisition software. Finally attendees will learn about the latest regulatory developments affecting nanomaterials in the EU and worldwide, including guidance the best tools available to meet these obligations.

Target audience

Target audience and key stakeholders are:

- Health and safety advisors
- Occupational hygienists
- Workers and professional users who use ENMs as such, in mixtures or incorporated into articles in research or production processes,
- Researchers
- Experts from industry associations and other stakeholder organizations informing companies about the requirements for the safe handling and use of ENMs on a regulatory basis, especially for risk control purposes,
- Experts from standardization (i.e. ISO committees) and/or regulatory bodies (i.e. ECHA)