

INRS Occupational Health Research Conference 2011

Risk associated to nanoparticles and nanomaterials 5 - 6 - 7 April 2011

Palais des Congrès,
54000 Nancy - France

Call for abstracts

Abstract submission deadline:
October 15th, 2010

www.inrs.fr

Contact: nano2011@inrs.fr

Organized by the Institut national de recherche
et de sécurité (INRS) in association
with the Partnership for European Research
in Occupational Safety and Health (PEROSH)



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Conference scopes

This conference will be the first of the INRS Occupational Health Research Conference new series and is addressing in 2011 the occupational risks associated to nanoparticles and nanomaterials. It is intended to bring together researchers, experts and practitioners from different backgrounds with the aim of sharing latest knowledge and discussing research needs on the following scopes: health effect assessment, characterization of nanomaterials, exposure measurement and assessment, emission control and protective equipments, risk assessment and risk management.

It is planned to devote an issue of **Annals of Occupational Hygiene** to papers from the conference. The conference committee will select some papers, and authors will be invited to submit them for consideration for the issue, subject to the usual peer review.

Topic areas

Abstract submissions are encouraged with research data and new perspectives on the following topic areas:

Health effect assessment

- Particle deposition within respiratory tract (animals, human)
- Toxicity by inhalation, ingestion and skin exposure
- Cellular responses, genotoxicity, immunotoxicology, neurotoxicity
- Toxicity key factors and mechanisms
- Methodology for *in vitro* and *in vivo* testing
- Toxicity testing strategies (*in vitro*, *in vivo*)
- Health-relevant dose metrics
- Biomonitoring
- Medical screening, occupational health

- surveillance and exposure registries
- Epidemiologic research

Instrumentation and exposure assessment

- Aerosol generation for toxicology purposes and device testing
- New concepts and innovative aerosol devices (transportable, portable)
- Single particle analysis methods
- Performance of existing aerosol instrumentation and sampling methods
- Particle collection for electron microscopy & chemical analysis
- Workplace air measurements under different scenarios
- Measurement strategy to differentiate from background
- Strategies to assess exposure
- Exposure scenarios and modelling
- Development of exposure databases

Characterization of engineered nanoparticles and nanomaterials

- Characterization methods for toxicology purposes
- Protocols for electron microscopy & chemical analysis
- Size selective dustiness/mistiness
- Nanoparticle release from products

Emission control and protective equipments

- Dynamics and transport of nanoaerosols in the work environment
- Filtration
- Performance of protective equipments (including personal)
- Control technologies

Risk assessment and risk management

- Practical solutions for risk assessment at the workplace
- Control banding approaches
- Approaches for deriving human exposure limits
- Best practices and risk management methods
- Risk perception and communication
- Risk assessment in a regulatory context
- Regulation and standardization aspects

Target audience

Of interest and relevance to researchers and experts involved in the topic areas, that includes toxicologists and health scientists, chemists and physicists, aerosol researchers and industrial hygienists from public research and universities, R&D laboratories or industry. This interdisciplinary conference is also intended to be of relevance for all stakeholders interested in the latest knowledge coming from research on identifying, assessing and managing risks related to handling and using nanoparticles and nanomaterials.

Conference structure

2 ½ days with no parallel session. One introductory session with invited speakers and four conference sessions with invited speakers, accepted abstracts for oral or poster presentation. The languages of the Conference are English and French. Simultaneous translation will be provided by the Organizers for oral presentations. Slides and posters in English.

Venue

Palais des Congrès
Rue du Grand-Rabbin-Haguenaer
54000 Nancy - France

Committees

Conference co-chairs

Didier Baptiste, Scientific Director
Olivier Witschger

INRS organisation committee

Claudine Cericola
Dominique Mur
Stéphane Vaxelaire

INRS program committee

Denis Bemer
Stéphane Binet
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International advisory committee

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Institut für Energie- und Umwelttechnik, Duisburg, DE

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Odile Boutou-Kempf

Institut de veille sanitaire, département Santé travail, Lyon, FR

Patrick Brochard

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Derk Brouwer

TNO Quality of Life Research & Development, Zeist, NL

Emeric Frejafon

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