

Oral presentations at Nanosafe 2008

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■— Conference opening

- 3 "Safe Nanotechnology EC Industrial Research" Georgios Katalagarianakis (European Commission)
- "Nanosafe"
 - Frédéric Schuster (Coordinator of NANOSAFE2, France)

Session 1: Exposure issues

- "Exposure to nanoparticles: Importance, knowledge and needs" Rob Aitken (Institute of Occupational Medicine, UK)
- "Characterization and monitoring of biological doses from inhalation exposure to nano and fine particles in industrial workplace" Christos Housiadas ("Demokritos" National Centre for Scientific Research, Greece)
- "Use of an electrical aerosol detector (EAD) to measure nanoparticles depositions on different regions of the respiratory tract of packaging workers in a carbon black manufacturing industry" Ying Fang Wang (National Cheng Kung University, Taiwan)
- "From measurements towards estimates of exposure: development of a strategy to assess exposure to
 manufactured nanoparticles; preliminary results of the NANOSH-project" Derk Brouwer (TNO Quality of Life, The Netherlands)

Session 2: Characterization, Detection and Monitoring

- [3] "Environmental, health and safety studies of nanoparticles" David Y. H. Pui (University of Minnesota, U.S.A)
- "On the performance of a calibrated nanoparticle generator" Ulrika Backman (VTT Technical Research Centre of Finland, Finland)
- "Manufactured nanoparticle detection using LIBS" Christophe Dutouquet (INERIS, France)
- Monitor for detecting and assessing exposure to airborne nanoparticles" Johan Marra (Philips Research Laboratories, The Netherlands)
- "Selective detection nanoparticles by elemental analysis" Luana Golanski (CEA, France)
- "Experimental study of the response functions of direct reading instruments measuring surface area concentration of airborne nanostructured particles" Sébastien Bau (INRS, France)
- "Electrical nanoparticle monitor with non-collecting operating principle" Kauko Janka (Dekati Ltd, Finland)
- "Photoluminescent Silicon nano particles for biological applications: passivation and functionalization" Julien Vincent (CEA, France)
- "From nanoparticles to large aerosols: Ultrafast measurement methods for size and concentration" Jürgen Spielvogel (Grimm Aerosol Technik GmbH, Germany)
- "Environmental parameters that control the fate of C60 fullerenes in aquatic system" Jérôme Labille (CEREGE, France)
- "Characterisation of nanoparticle size and state prior to nanotoxicological studies" Patrick Hole (NanoSight Limited, UK)
- "Lung toxicity determination by in vitro exposure at the air liquid interface with an integrated online dose measurement" Sonja Mülhopt (Forschungszentrum Karlsruhe GmbH, Germany)
- "Using inductively coupled plasma mass spectrometry (ICP MS) to determine the fate of inorganic nanoparticles" Silvia Angeloni (CSEM, Switzerland)
- "New sampling technique and characterization of nanoparticles in liquids" Monica Ratoi (University of Oxford, UK)

■— Session 3: Nanomaterials life cycle

- "Life cycle of airborne nanoparticles and its implications for filtration and personal protection devices" Gerhard Kasper (University of Karlsruhe, Germany)
- "Measurement of nanoparticle removal by abrasion" Luana Golanski (CEA, France)
- Labelling of nanoparticles by nanotracers and oligonucleotides Francois Tardif (CEA, France)

Session 4: Toxicology

- "Nanotoxicology: What we have learned from toxicological studies of manufactured nanomaterials" Yuliang Zhao (Lab for Biomedical Effects of Nanomaterials and Nanosafety, China)
- "Integration of a microfluidic device to test the toxicity of nanoparticles" Abhay Andar (University of Glasgow, UK)
- [3] "Dosimetry of mono-disperse silica nanoparticles in cytotoxicity assays" Peter H.M. Hoet (KULeuven, Belgium)
- "PBPK models to assess nanoparticles kinetics and distribution in humans and rats" Alexandre R.R. Péry (INERIS, France)
- Nanotoxicology studies within the "Nanoscience" CEA program" Marie Carrière (CEA, France)
- "Comparative cytotoxicity of 27 manufactured nanomaterials in human alveolar epithelial and macrophage cell lines" Sophie Lanone (INSERM, France)
- "TiO2, SiC nanoparticles and multi-walled carbon nanotubes cyto- and genotoxicity" Marie Carrière (CEA, France)
- "Analysis of the toxicity of nanoparticles on the immune system using their capacity to perturb dendritic cells functions" Christian L. Villiers (INSERM, France)
- "Multi walled carbon nanotubes can be eliminated by the lung: Proposition of hypothetical clearance mechanism" Dan Elgrabli (INERIS, France)
- "Biokinetics and effects of titania nanomaterial after inhalation and i.v. injection" Robert Landsiedel (BASF, Germany)
- "Nanotoxico: Toxicological assessment of manufactured nanomaterials using in vitro and vivo models" Christelle Saout (University of Namur, Belgium)
- "Study of the composite nanopowders dispersion in the vital organs of mice" Alice Tofan (University Dunarea de Jos of Galati, Romania)
- "Acute toxicity of quantum dots in mice: importance of surface charge" Jorina Geys (KULeuven, Belgium)

■— Session 5: Commercial equipments related to safe production and use of nanomaterials

- 📵 "Nanosight: Systems For characterisation of nanoparticle dispersions" Patrick Hole (NanoSight Ltd., UK)
- "The first solution for nanoparticles handling designed by Faure Ingénierie: Description of the PSPN (Poste de Sécurité pour Particules Nanostructurées)"

 Pierre Bombardier (Faure Ingénierie S.A., France)
- "CORDOUAN Technologies: Solutions for particle size measurements in dispersion: the DL135" Benoît Maxit (CORDOUAN Technologies, France)
- "TSI: Measurement, monitoring and exposure assessment of nanoparticles" Eric Filimundi (TSI France Inc., France)
- Sperian Protection Clothing Olivier Gougeon (Sperian Protection Clothing, France)
- "Grimm Aerosol Technik GmbH, ECOMESURE: New methods and standards for fine dust monitoring" Jürgen Spielvogel (Grimm Aerosol Technik GmbH, Germany)
- "Monitoring of airborne nano particles at industrial workplaces by means of a portable device will enable

 strategies to reduce exposure levels and improve the health and safety of workers" Willem van den Brink

■— Session 6: Personal protection and secure industrial production

(Philips Aerasense, The Netherlands)

- "Stargate Sherbrooke: an example of a safe nanofactory" François Gitzhofer (University of Sherbrooke, Canada)
- "Experimental evaluation of individual protection devices against different types of nanoaerosols: graphite, TiO2 and Pt" Luana Golanski (CEA, France)
- "Lessons learnt over 30 years of air filtration in the nuclear industry" Jacques Vendel (IRSN, France)
- "Elaboration of nanophased materials in supercritical CO2: the MATCOS facility. Safety issues and scientific challenges" Frédéric Charton (CEA, France)

- [3] "Liquid recovery of TiO2 nanoparticles synthesized by laser pyrolysis" Benoit Guizard (CEA, France)
- "Spray drying for processing of nanomaterials" Jesper Sæderup Lindeløv (GEA Niro, Denmark)

■— Session 7: Safety parameters evaluation

- "Risk of dust explosions of combustible nanomaterials" Ritsu Dobashi (University of Tokyo, Japan)
- "Material scientific approach to predict nanomaterials risk of adverse health effects" Yasuto Matsui (University of Tokyo, Japan)
 - "Estimation of risks and safety margins for selected nanoparticles in occupational, consumer and environmental
- settings"
 - Otto Hänninen (Helmholtz Zentrum München, Germany)
- "Explosion risks from nanomaterials" Jacques Bouillard (INERIS, France)

■— Session 8: Standardization, Regulations and Education

- "Standardization in support of safe and successful nanotechnologies for all stakeholders" Peter Hatto (IonBond Limited, UK)
- "NanoSMILE: information and training process at CEA" Hubert Jeanson (INSTN, France)
- "Current standardisation for nanotechnology" Carsten M\u00f6hlmann (BGIA, Germany)
- "Personal protective equipment against solid particles in nuclear environment" Olivier Gougeon (Sperian Protection Clothing, France)
- "Guideline for safe handling, use and disposal of nanoparticles" Ghassem Amoabediny (University of Tehran, Iran)

■— Session 9: World trend and strategies for the safe production and use of nanomaterials for the future

- 🖹 "Strategy of Québec and Canada: the mission of NanoQuébec" Alain Lacourse (NanoQuébec, Canada)
- "Managing the health and safety risks of working with nanomaterials in CSIRO laboratories, Australia" Gregory M. Haywood (CSIRO, Australia)
- "Theme NMP of FP7:Safe Nanotechnology in the Industrial Research policy" Jose-Lorenzo Valles (European Commission)

■— Session 10: Main projects in Europe

- "The NanoCare project: a German initiative on health aspects of synthetic nanoparticles" Katja Nau (Forschungszentrum Karlsruhe GmbH, Germany)
- "Development of methodology for alternative testing strategies for the assessment of the toxicological profile of nanoparticles used in medical diagnostics. NanoTEST EC FP7 project" Maria Dusinska (Norwegian Institute for Air Research, Norway)
- "SAPHIR Safe NanoManufacturing: Safe, Integrated & controlled production of high-tech multifunctional materials and their recycling" Christophe Goepfert (CILAS, France)
- "The DIPNA project: a platform for the nanotoxicological investigations" Antonietta Gatti (Università di Modena e Reggio Emilia, Italy)
- "NANOINTERACT: A rational approach to the interaction between nanoscale materials and living matter?" Iseult Lynch (University College Dublin, Ireland)
- "NanoImpactNet European network on the health and environmental impact of nanomaterials" Michael Riediker (Université de Lausanne and Université de Genève, Switzerland)

■— Conclusions

Conclusions

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