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Section on *Prevention in the Chemical Industry*



Programme

Nanotechnology – Prospects and occupational risks

New challenges for prevention

Lucerne, Switzerland
4–5 October 2010



ISSA Symposium
Nanotechnology
Lucerne, 4-5 Oct 2010
www.issa.int/prevention-chemistry

Programme: Monday 4 October 2010

08.30 a.m. **Participant registration and welcoming coffee**

09.30 a.m. **Opening address**

Erwin Radek, President of the ISSA Chemistry Section, Heidelberg

09.45 a.m. **Presentation of the programme**

*Ulrich Fricker, Vice President of the ISSA Chemistry Section,
President of the Suva Management Board, Lucerne*

THEME 1

Assessment of current practice

The manufacture and utilisation of nanoparticles

Moderation: Robert Piringer, AUVA, Vienna; Dr. Thomas Brock, Heidelberg

10.00 a.m. **“Nanos“: what applications and what perspectives?**

Michael Riediker, IST, Lausanne

10.45 a.m. **Manufacturing methods for nanomaterials/nanoparticles**

Eric Gaffet, Nanomaterials Research Group/CNRS, Belfort

11.15 a.m. Coffee break

11.45 a.m. **Manufacture and use of nanomaterials in France**

Bertrand Honnert, INRS, Nancy

12.15 p.m. **Use of nanoparticles in product manufacturing**

André Gazso, Austrian Academy of Sciences, Institute of Technology Assessment, Vienna

12.45 p.m. **Definition of the Phrase Manufactured Nanomaterials
and Metrological Uncertainties**

Stefan Engel, BASF, Ludwigshafen

1.15 p.m. Lunch

THEME 2

Physico-chemical properties; Metrology; Occupational exposure

Moderation: Dr. Martin Gschwind, Suva Lucerne; Dr. Raymond Vincent, INRS Nancy

2.30 p.m. **Determining physical and chemical reactivity**

Michael Stintz, University of Dresden

3.00 p.m. **Assessing exposure to nanoparticles: current methods and prospects**

Olivier Witschger, INRS, Nancy

3.30 p.m. **Use of nanoparticles – medical applications**

Claus-Michael Lehr, Saarland University

4.00 p.m. **Methods for quantifying nanoparticles
(portable measuring apparatus in particular)**

Martin Fierz, University of Applied Sciences Northwestern Switzerland, Windisch

4.30 p.m. Coffee break

5.00 p.m. **Occupational exposure 1**

Alexander Graff, ÖSBS, Leoben

5.30 p.m. **Occupational exposure 2**

Markus Berges, IFA, St. Augustin

6.00 p.m. **Discussion, summary of day 1**

Martin Gschwind, Suva, Lucerne; Raymond Vincent, INRS, Nancy

6.15 p.m. End of day 1

7.45 p.m. Evening together

Programme: Tuesday 5 October 2010

08.30 Uhr **Introduction to themes of day 2**

Stéphane Pimbert, Vice President of the ISSA Chemistry Section, Director General of the INRS, Paris

THEME 3

Toxicology and health protection; Occupational medicine; Product information

Moderation: Dr. Marcel Jost, Suva Lucerne; Dr. Claudia Pletscher, Suva Lucerne

08.45 a.m. **Toxicological approach to nano-objects, especially nanoparticles
and nanofibres**

Harald Krug, EMPA, St. Gallen

09.15 a.m. ***In vitro* cytotoxic and genotoxic effects of metal oxide nanoparticles**

Yves Guichard, INRS, Nancy

09.45 a.m. **Toxicological effects of nanoparticles –
absorption pathways, excretion and mode of action**

Eva Valic, AUVA, Vienna

10.15 a.m. Coffee break

10.45 a.m. **Intelligent strategies for the safe design of nano-objects**

Dr. Kristen Kulinowski, Rice University, Houston

11.30 a.m. **A good practice guide “Nanomaterials and HS&E”**

Daniel Bernard, UIC, Paris

12.00 p.m. Lunch

THEME 4

Assessment and prevention of health-related risks

Moderation: Antje Ermer, BG RCI Heidelberg; Christoph Bosshard, Suva Lucerne

1.15 p.m. **Risk assessment and prevention in the workplace:
background, issues and prospects**

Myriam Ricaud, INRS, Paris

1.45 p.m. **Filtering nanoparticle aerosols**

Denis Bemer, INRS, Nancy

2.15 p.m. **Study and assessment of risks and prevention measures
in the utilisation of nanomaterials/nanoparticles**

Thorsten Weidl, TÜV SÜD, Munich

2.45 p.m. **Prevention measures in nanomaterial R&D**

Thomas Brock, BG RCI, Heidelberg

3.15 p.m. Coffee break

3.45 p.m. **Regulation of nanomaterials**

Robert Falkner, The London School of Economics and Political Science

4.15 p.m. **Current thought in the OECD**

Klaus Günter Steinhäuser, Environment Ministry, Dessau

4.45 p.m. **Action plan “Synthetic nanomaterials”**

Christoph Studer, Health Ministry, Bern

5.15 p.m. **Summary and prospects – nanotechnology-related benefits and risks**

*Thomas Köhler, Secretary General of the ISSA Chemistry Section,
President of the BG RCI Executive Board, Heidelberg*

5.30 p.m. End of symposium