

## Dialogue on synthetic Nanoparticles

Nanotechnology is seen as a key 21st century technology. Industry and science regard its market potential as substantial. Recent surveys have shown a variety of possibilities to use nanotechnology, indicating possible health risks and highlighting the need for research. With nanoproducts already available on the market, the issue of synthetic nanoparticles has come more to the fore. This has raised many questions about the opportunities and applications involved as well as potential risks to health and the environment.

The Federal Environment Ministry (BMU), the Federal Environmental Agency (UBA) and the Federal Institute for Occupational Safety and Health (BAuA) want to promote in a dialogue with other stakeholders to discuss the impact of synthetic nanoparticles on health and the environment.

The main objectives are

- to pool both knowledge of the opportunities offered by the new technology and the risks for health and the environment
- to specify the need for research, action and coordination,
- to initiate a dialogue between different stakeholders (industry, academia, administration, trade unions, media, consumer and environmental protection representatives, etc.).

The project aims at recommendations for the evaluation of the risks and opportunities associated with the use of synthetic nanoparticles and a continuing dialogue with the relevant stakeholders.

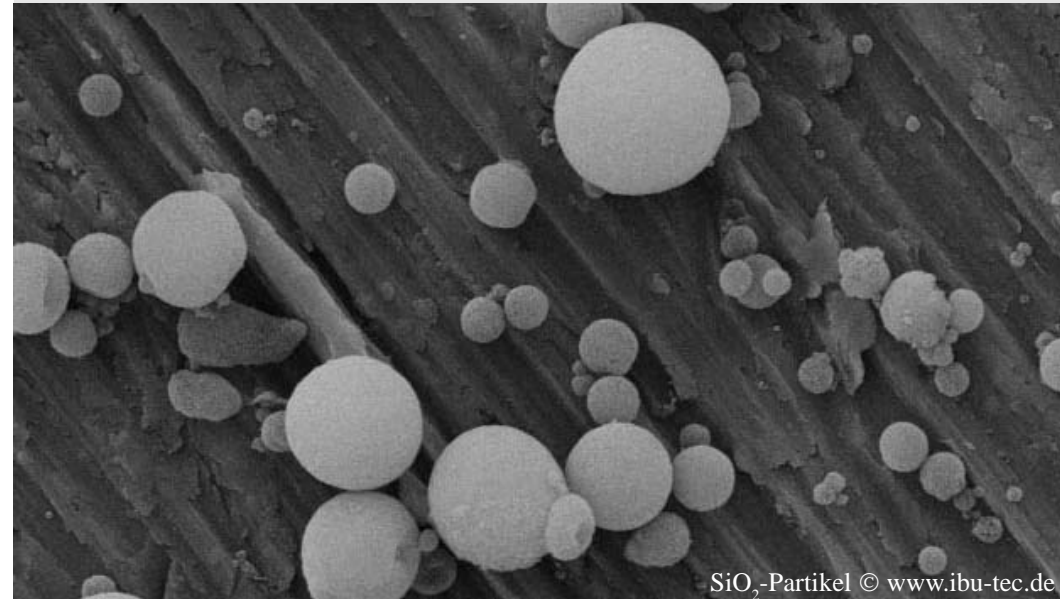
For further information please visit our website at [www.dialog-nanopartikel.de](http://www.dialog-nanopartikel.de).

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## Dialogue on the evaluation of synthetic nanoparticles in work and environmental areas



**11. and 12. October 2005**  
**at the Federal Environment Ministry in Bonn**

Organizer



Bundesministerium  
für Umwelt, Naturschutz  
und Reaktorsicherheit

**baua:**

Bundesanstalt für Arbeitsschutz  
und Arbeitsmedizin

**Umwelt  
Bundes  
Amt**   
Für Mensch und Umwelt

## Tuesday, 11. October 2005

08.30 Registration

### 09.30 Opening

Federal Environment Minister Jürgen Trittin  
Wolff-Michael Catenhusen, BMBF

Dr. Cornelia Fischer, BMWA  
Rob Visser, OECD

10.00 Lots of questions: Requirements for a dialogue on nanoparticles from the perspective of the different stakeholders - Guided discussion  
Dr. Christoph Lauterwasser, Allianz  
Dr. Rolf Buschmann, Consumer centre NRW

Prof. Dr. Helmut Horn, Friends of the Earth Germany  
Stefan Weis, IG BCE

10.40 Nanosciences and nanotechnologies: an action plan for Europe 2005 – 2009  
Eva Hellsten, EU-Commission

### Synthetic nanoparticles – products of an innovative and sustainable technology

Chair: Dr. Karl-Heinz Haas, Fraunhofer Institute for Silicate Research

10.55 Market opportunities and –potentials of synthetic nanoparticles in Germany  
Dr. Wolfgang Luther, Future Technologies Consulting VDI TZ

### 11.15 Coffee break

11.45 Nanotechnology: progress for man, the environment und economy  
Dr. Markus Pridöhl, DECHEMA/VCI working group Responsible Production and Use of Nanomaterials

### Effects of nanoparticles on man and the environment

Chair: Prof. Dr. Ulrich Schlottmann, Federal Environment Ministry BMU

12.15 Potentials for relief of environmental burden and sustainability aspects of nanoparticles  
Dr. Ulrich Petschow, Institute for Ecological Economy Research IÖW

### 12.45 Lunch

13.45 Biokinetics of nanoparticles: a reason for concern?  
Prof. Dr. Günter Oberdörster, University of Rochester

14.35 Effects of synthetic nanoparticles  
Prof. Dr. Harald Krug, Research Centre Karlsruhe

15.05 Requirements for epidemiological studies on synthetic nanoparticles  
Dr. Irene Brüske-Hohlfeld, GSF – Research Centre for Environment and Health

### 15.20 Coffee break

### Nanoparticles at work places and metrological challenges

Chair: Dr. Reiner Arndt, Federal Institute for Occupational Safety and Health BAuA

15.50 Metrological possibilities and limitations in the determination of nanoparticles  
Dr. Thomas Kuhlbusch, Institute for Energy and Environmental Technology

16.20 Exposure to nanoparticles at work places  
Carsten Möhlmann, BG-Institute for Occupational Safety and Health BGIA

### Risk assessment and risk communication

Chair: Dr. Burkhard Viell, Federal Institute for Risk Assessment BfR

16.50 Requirements for risk assessment of synthetic nanoparticles  
Prof. Dr. Wilfried Kühling, University of Halle, Member of the Risk Commission

### 17.10 Break

17.30 Risk communication und risk acceptance of synthetic nanoparticles  
Dr. Peter M. Wiedemann, Research Center Jülich

18.00 Summary of the first day and concluding discussion  
Dr. Reiner Arndt, Federal Institute for Occupational Safety and Health BAuA

18.30 Opening of „Get together“ with dinner-buffet  
Prof. Dr. Ulrich Schlottmann, BMU

## Wednesday, 12. October 2005

09.00 Opening and Summary of the first day  
Dr. Christiane Markard, UBA

### 09.05 Workshops

① Environment protection  
Patricia Cameron, Friends of the Earth Germany

② Risk assessment and risk communication  
Prof. Dr. Ortwin Renn, University of Stuttgart

④ Measurement techniques  
Prof. Dr. Wolfgang Koch, Fraunhofer-Institute for Toxicology and Experimental Medicine, ITEM

③ Occupational safety and occupational medicine  
Prof. Dr. Uwe Heinrich, Fraunhofer-Institute for Toxicology and Experimental Medicine, ITEM and Dr. Reiner Arndt, BAuA

⑤ Potentials for relief of environmental burden through nanotechnology  
Dr. Ulrich Petschow, IÖW

⑥ Environmental medicine  
Dr. Tilo Reinert, University of Leipzig

12.00 Presentation of workshop results

### 13.00 Lunch

14.00 Presentation of workshop results (continued)

### 15.00 Coffee break

15.15 Synthetic nanoparticles: strategies and dialogue - Panel discussion  
Rob Visser, OECD  
Dr. Uwe Lahl, Federal Environment Ministry  
Prof. Dr. Rüdiger Iden, German Association of the Chemical Industry VCI  
Prof. Dr. Helmut Greim, German Research Foundation DFG

Dr. Holger Krawinkel, Federation of German Consumer Organisations  
Prof. Dr. Helmut Horn, Friends of the Earth Germany

16.20 Closing remarks  
Dr. Uwe Lahl, Federal Environment Ministry

### 16.30 End of the meeting