

Registration Information

Closing Date for Registration: August 14, 2004

Registration Rates: After August 14, 2004
Regular: Euro 200,00 Regular: Euro 250,00
Student: Euro 30,00 Student: Euro 50,00

For registration, please return the enclosed registration form to the given fax number. Upon receipt of your application, you will receive an invoice and a registration confirmation.

Cancellations before August 14, 2004 are exempt from charges. For later cancellations and for non-attendance, the full amount will be charged.



International Scientific Committee:

Prof. Dr. Hermann Grimmeiss, University of Lund and E-MRS, Sweden
Prof. Dr. Merrilea Mayo, GUIRR and MRS, USA
John F. Mizroch, WEC, USA
Prof. Dr. Armin Reller, University of Augsburg, Germany
Dr. Mrityunjay Singh, NASA, USA
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Dr. Dr. Axel Zweck, VDI, Germany

Organisation:

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matforum 04

Potentials and Risks of Nanoscale Materials

University of Augsburg



Matforum 2004

University of Augsburg

September 20 - 21, 2004



Further information is available on <http://www.matforum.de>

Recommended Hotels:

Limited accommodations are arranged at the hotels InterCity and IBIS (Keyword: Matforum 2004) on a first come, first served basis. Please contact the hotels directly for any reservation:

IBIS Hotel: Phone: +49 821 50160,
www.ibishotel.com

InterCity Hotel: Phone: +49 821 50390,
www.intercityhotel.de

Nanotechnology will change science and technology in the next twenty years. Nanostructured materials are being produced and distributed on an increasingly large scale.

Scientific discussion of the environmental aspects of nanostructured materials has been ongoing in the US for the last 2 years, but is only in its infancy in Europe. Nanostructured materials can contribute to sustainable development: they result in smaller products requiring less energy and reduced material flows. Indeed, nanostructured materials are often front-runners of materials efficiency.

Until now, there has been little examination of the environmental impacts of disused and unintentionally released nanoparticles.

Carbon nano-tubes are potentially of great use for applications in electronic devices and new materials. They are possibly as inoffensive as icing sugar but may also exhibit the same qualities as asbestos fibres.

As the presence of nanoparticles in everyday life increases, so too does public and political pressure on the subject.

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Name:
 Institution / Company:
 Dept. / Mail Stop:
 PO Box:
 Street:
 Postal Code: City:
 State: Country:
 Phone: Fax:
 Email:
 Student I would like to contribute a poster to the following topic:
 Signature:

Registration Form:

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Agenda - September, 20, 2004

Sustainable Production and Application of Nanostructured Materials

- 8:00 - 10:00 **Registration**
- Fields of Application and Potentials of Nanomaterials**
- 10:00 - 10:35 **Introduction - At the Dawn of a New Materials Area**
Prof. Dr. A. Reller, University of Augsburg
- 10:35 - 11:10 **Potentials and Risks of Engineered Nanomaterials.**
Prof. Dr. V. Colvin, Rice University, USA
- 11:10 - 11:45 **„Nano“ as a Phantom Risk? Learning from Recent Developments**
Prof. Dr. M. Haller, University of St. Gallen, Switzerland
- 11:45 - 12:00 **Discussion**
- 12:00 - 13:30 **Lunch**
- Sustainable Production of Nanomaterials**
- 13:30 - 14:00 **Life-Cycle-Engineering and Precautionary Risk Management in Nanoscale Materials**
Prof. Dr. A. von Gleich, University of Bremen
- 14:00 - 14:30 **Nanomaterials and Occupational Health: Establishing a Healthy Working Environment**
Dr. A. D. Maynard, NIOSH, USA
- 14:30 - 15:00 **Sustainable Production of Nanomaterials**
Dr. M. Pridöhl, Degussa AG
- 15:00 - 15:30 **Nanoparticles at Workplaces - Results and Future Needs**
Dr. T. A. J. Kuhlbusch, Prof. Dr. H. Fissan, University of Duisburg
- 15:30 - 16:00 **Discussion**
- 16:30 - 20:00 **House Warming Party** of the new Headquarter of the Environment Science Center (WZU) and the Application Center of Materials and Environmental Research (AMU), University of Augsburg
Bavarian Minister of Education and Research, Dr. T. Goppel

Agenda - September 21, 2004

Environmental Aspects and Sustainable Application of Nanostructured Materials

- Nanomaterials: Environmental and Health Aspects**
- 9:30 - 10:00 **Epidemiological Evidence for Health Effects of Fine and Ultrafine Particles**
Prof. Dr. Dr. H.-E. Wichmann, GSF
- 10:00 - 10:30 **New Methods of Characterisation of Fine Dust**
Prof. Dr. R. Zimmermann, University of Augsburg, GSF
- 10:30 - 11:00 **The Quality of Skin as a Barrier to Nanoparticles**
Prof. Dr. T. Butz, University of Leipzig
- 11:00 - 11:30 **Health Aspects of Nanoparticles - In Vitro Testing of Toxicology and Medical Applications**
PD Dr. H. Krug, Forschungszentrum Karlsruhe
- 11:30 - 12:00 **Discussion**
- 12:00 - 13:00 **Lunch**
- Sustainable Application of Nanomaterials and Nanotechnology**
- 13:00 - 13:30 **Nanotechnology and Technology Assessment/ Societal Implications - The Perspective of BMBF**
Dr. Dr. B. Hunger, BMBF
- 13:30 - 14:00 **Application of Materials with Nano-Dimensions**
Dr. M. Koch, Merck KGaA
- 14:00 - 14:30 **Nanotechnology for Sustainable Energy Supply in Automobiles**
Dr. U. König; Dr. H. Pressting, Daimler Chrysler AG
- 14:30 - 15:00 **Nanomaterials for Renewable, Environment-Friendly Energy Solutions**
Dr. H. R. Berke, Konarka Technologies Inc., USA
- 15:00 - 15:30 **Discussion**
- 15:30 - 16:00 **Coffee Break**
- 16:00 - 17:30 **Concluding Discussion: Perspectives of a Sustainable Nanoresearch**
Prof. Dr. A. Reller, University of Augsburg

