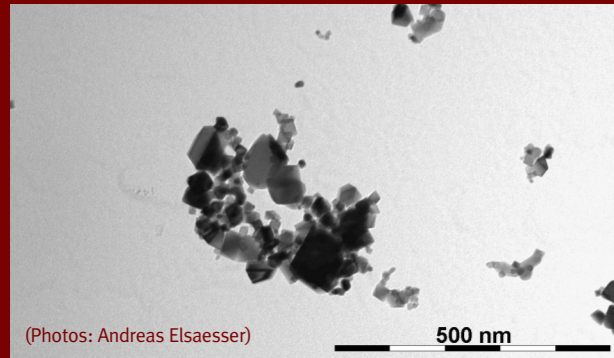


Our fast-moving technologies often use novel materials primarily asking for safety certifications only after the first “accidents and damage” are discovered. When considering the obvious benefit, it is often difficult to limit practical applications and processes considering the immense commercial interest behind it. In a polar interest questions always arise as to how many risks we should accept? In which fields can we move safely? Caring for our patients who are already suffering from damage caused by particles and nanoparticles, clinical environmental medicine has gained much experience in this field. Therefore EUROPAEM urgently stresses the need for primary prevention strategies in coping with the impact of nanotechnology, strategies that are missing at this time. At this congress we want to demonstrate the current knowledge level by means of international competent speakers.



(Photos: Andreas Elsaesser)

Considering the current state of knowledge, scientists and politicians, philosophers and sociologists must define together acceptable fields of application of nanotechnology. The exponential increase in our knowledge of the toxic actions of nanoparticles, should lead to rapid modification in the legal framework. In a regulatory framework, limiting and standard values for exposure need rapid correction. Precautionary principles, constantly emphasized by the EU commission, require particularly close attention. A primary prevention strategy in nanotechnology is overdue.

**REGISTRATION FEE** (Food and refreshments will be served)

**Congress, May 7 – 8, 2011:**

Members	275,00 €
Non-members	350,00 €
Family members of participants pay half price	

**Early booking** (paying before 1st April 2011):

Members	250,00 €
Non-members	300,00 €

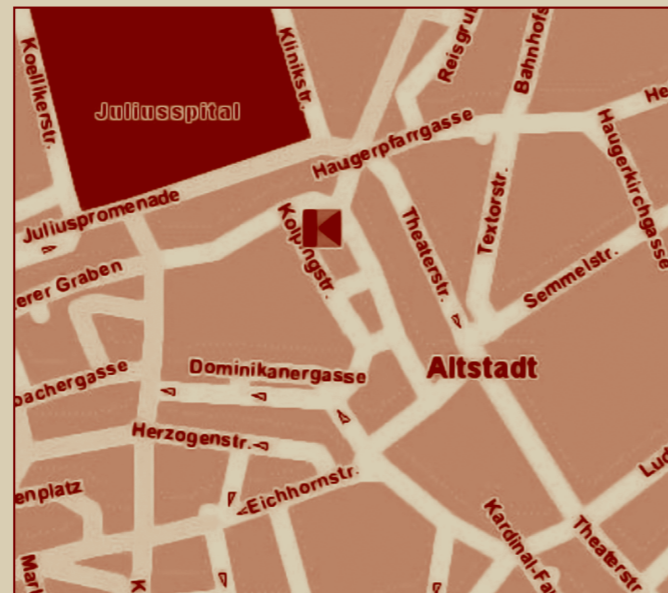
Medical and dentistry students (Student's ID card necessary)	80,00 €
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<b>Dinner, May 7, 2011</b>	<b>30,00 €</b>
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Please transfer the registration fee to the account of EUROPAEM: Sparkasse Mainfranken, Konto-Nr. 43812841 BLZ 790 500 00 IBAN: DE 36 7905 0000 0043 8128 41 SWIFT-BIC:BYLADEM1SWU

**Deadline: April 29, 2011**

**Direction plan**



**European Academy for Environmental Medicine e. V. (EUROPAEM)**

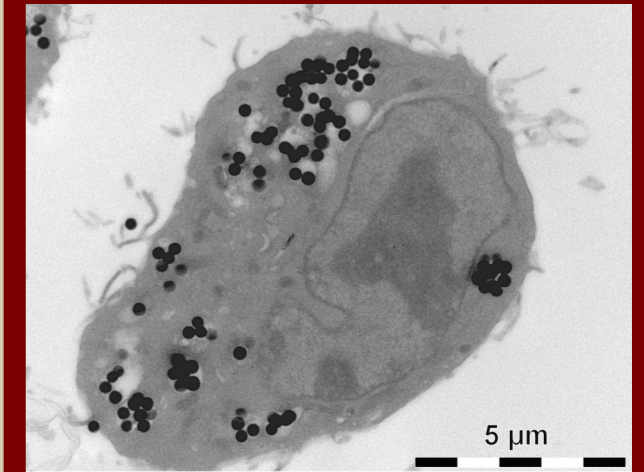


**NANOTECHNOLOGY**

**IMPACT ON HEALTH  
BENEFITS AND RISKS**

**INTERNATIONAL CONGRESS  
May 7-8, 2011 Würzburg**

**Kolping-Akademie  
Kolpingplatz 1  
97070 Würzburg**



Nanotechnology represents a key technology which is found in products sometimes used daily, in the medical engineering and biomedicine, pharmacology, and agriculture and in the food industry and is also often used in some other areas of technology. The various application options open perspectives that will revolutionize our daily life.

As with all new technologies, one should be able to assess the risk before adopting the technology and enjoying the benefits. There are various possibilities on how nanotechnology can burden human health. Besides dermal contact, ingestion of food or contaminated dusts and contact with alloplastic materials in medical treatment, inhalation must mainly be considered as a mode of human exposure. The resulting health risks are caused by the biological impact of particles and nanoparticles. They are able to overcome physiological barriers. Therefore nanoparticles must be seen as damaging agents or as a transporter of substances that may cause toxic and oncological, but also epigenetic pathological effects. The neuron-endocrine immune system is attacked. Subsequently inflammation causes chronic multi-system disorders and may trigger chronic disease processes that cause, in turn, dozens of chronic inflammatory diseases.

## Saturday May 7, 2011

### Nanotechnology – Impact on Health Benefits and Risks

8.00	Registration	
9.00	Welcome	Ohnsorge
	Welcome by the Lord Mayor of the City of Würzburg, Georg Rosenthal	
	Moderation	Müller
9.30	Responsible Dealing with Nanotechnologies: Findings of the Nano Commission of the German Government	Catenhusen
10.00	Perspectives of Nanotechnology in Biomedicine	Alexiou
10.30	Is Nanotechnology Controllable?	Howard
11.00	Integrated Risk Assessment of Nanotechnology by the WHO	Martuzzi
11.30	Coffee Break Visit the Exhibition, Posters, Video Demonstration	
12.00	Ethical Aspects of Nanotechnology – Epistemology of Uncertainty in Science	Tallacchini
12.45	Discussion	
13.15	Lunch Visit the Exhibition, Posters, Video Demonstration	
13.15	Walk around with the media, Press conference	
14.30	Nanoparticle Interaction with Cellular Systems: in vitro Approaches	Kirkpatrick
15.00	Impact of Nanotechnology on Epigenetics: From Environmental Particles to Nanoparticles	Baccarelli
15.30	Discussion	
15.45	Coffee Break Visit the Exhibition, Posters, Video Demonstration	

### Pulse paper on nanotechnological applications

16.15	Health Hazards of Nanoparticles from Toners	Stelting
16.45	Nanotechnical Applications in Food and Utility Items	Lampen
17.15	Panel Discussion	

17.30	General Discussion
18.00	End
19.30	Evening Event

## Sunday May 8, 2011

### Particles – Alloplastic Materials Health resultant problems by particles from alloplastic materials

9.00	Welcome	Ohnsorge
	Moderation	Engelhardt
09.15	Impact of Particles - Susceptibility and Vulnerability	Schnakenberg
09.45	Inflammation by Alloplastic Materials Immunology and Immune Toxicology Analysis	von Baehr
<b>Experiences in the faculties</b>		
10.15	Effects of Abraded Particles on the RANKL/ RANK/OPG-System in Surgery and Orthopedics	Baumann
11.00	Inflammation by Particles in Dentistry	Höhne
11.30	Coffee Break Visit the Exhibition, Posters, Video Demonstration	
12.00	Poster Award	
<b>Care of reactions from alloplastic materials</b>		
12.15	Particle Induced Illnesses Diagnosis, Therapy, Prevention	Müller
12.45	Panel Discussion	
13.15	General Discussion	
14.00	Farewell	

Congress language: English, French, German  
Simultaneous translation

20 certification points are applied.

### Registration:

#### EUROPAEM

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Juliuspromenade 54, 97070 Würzburg, Deutschland  
Phone +49 931/ 3534830, Fax +49 931/57 31 31  
E-Mail: congress@europaem.de

### Alexiou, Prof. Dr. med. Christoph

Leader of the section for Experimental Oncology and Nanomedicine, Else Kröner-Fresenius-Foundation professorate  
University Erlangen, Germany

### Baccarelli, MD PhD Andrea

Mark and Catherine Winkler Associate Professor of Environmental Epigenetics, Harvard School of Public Health, Boston, USA

### Baumann, PD Dr. med. Bernd

Senior Consultant Schön Klinik Septic & Reconstructive Surgery  
Munich, Germany

### Catenhusen, Wolf-Michael

Secretary of State (off duty)

Chairman of the Nano - Commission of the German Government

Member of the German Ethics Council, Berlin, Germany

### Engelhardt, Volker

General practitioner, Specialized Physician in Environmental Medicine, Braunschweig, Germany

### Höhne, Lutz

Dentist, Specialized Physician in Environmental Medicine

Chairman of DGUZ, Dirmstein, Germany

### Howard, Prof. MB ChB. PhD. FRCPath C. Vyvyan

Toxicologist, Centre for Molecular Biosciences, University of Ulster  
Londonderry, Northern Ireland

### Kirkpatrick, Prof. Dr. Charles James

Director of the Institute of the Institute for Pathology,

Johannes Gutenberg-University, Mainz, Germany

### Lampen, Prof. Dr. Dr. Alfonso

Department of Food-Safety

Federal Institute for Risk Assessment, Berlin, Germany

### Martuzzi, PhD Marco

Scientific Officer, Health Impact Assessment

World Health Organization (WHO)

European Centre for Environment and Health

WHO Regional Office for Europe, Rome, Italy

### Müller, Dr. med. Kurt E.

Dermatologist, Specialized Physician in Environmental Medicine

Chairman EUROPAEM, Kempten, Germany

### Schnakenberg, Dr. rer. nat. Eckart

Institute for Pharmacokinetics and Genetic- -Disposition (IPGD)  
Hannover, Germany

### Stelting, Hans-Joachim

Interest Group for Violation by Toner

Hamburg, Germany

### Tallacchini, Prof. Mariachiara

Faculty of Law, University Cattolica S.C., Piacenza, Italy

Faculty of Biotechnology, University of Milan, Milano, Italy

### von Baehr, Dr. med. Volker

Institute for Medical Diagnostics (IMD)

Berlin, Germany

## Friday May 6, 2011

### European Networking

#### 15:00 European Network Patient Groups

Strategy debate: Environmentally ill people in Europe

- Networking, organization models
- Exchange of knowledge and arguments
- Development of European political strategies
- European action harnessing
- Founding: “European Committee for environmentally ill people” as contact persons and consulting body for the EU-Commission

Target group: All patients groups concerning environmentally linked illnesses.

Registration: europaem@europaem.de

#### 15:00 European Network Experts for Indoor pollution

Strategy debate:

- Exchange of knowledge and process engineering
- Networking, organization models
- Development of European political strategies
- Optimizing of national actions
- European action harnessing
- Founding: “European Committee for Indoor Air Quality” as practice orientated consulting body for the EU-Commission

Target group: Experts for Indoor pollution, Baubiologen  
Green-Ambulances etc.

Moderation: Baden, Ralph  
Diplombiologe und Baubiologe, Luxemburg

Registration: akut@pt.lu

#### 18:00 EUROPAEM

#### Annual General Meeting with election of the board

**ON BEHALF OF PATIENTS SUFFERING FROM ENVIRONMENTALLY LINKED ILLNESSES, WE URGENTLY ASK YOU NOT TO USE ANY PERFUME OR ODORIFEROUS COSMETICS. PLEASE TURN OFF YOUR MOBILE TOO!**