

# EuroNanoForum 2009

## **Nanotechnology for Sustainable Economy European and International Forum on Nanotechnology**

2 - 5 June 2009

Prague, Czech Republic

*European and International Forum on Nanotechnology organized by the Technology Centre of the Academy of Sciences of the Czech Republic with the support of the European Commission under the auspices of the Ministry of Education, Youth and Sports of the Czech Republic as an official event of the Czech Presidency of the Council of the European Union*

We invite you to participate to the **EuroNanoForum 2009**, the fourth of a set of international nanotechnology conferences organized as official events of national Presidencies of the European Union and supported by the European Commission through the Industrial Technologies programme. The first conference *EuroNanoForum 2003* enabled the European Commission to present the key elements for an integrated and responsible approach to nanotechnology and a common European strategy for nanotechnology research. *EuroNanoForum 2005* focused on "Nanotechnology and the Health of the EU Citizen in 2020" with the aim to promote developments in nanotechnology that are leading to innovative solutions for healthcare in Europe and to launch the European Technology Platform on Nanomedicine. Two years later, *EuroNanoForum 2007* gave an overview of the state-of-the-art of "Nanotechnology in industrial applications" to follow the continuous development of nanotechnology by promoting the transfer of nanotechnology from research to industrial production processes, products and applications in all those fields that can improve the competitiveness of European industry. **ENF2009** on "**Nanotechnology for Sustainable Economy**" will logically follow the successful ENF2007 by addressing the contribution and

challenges of nanotechnology research for a sustainable development of European industry and society, such as the need for reduction in carbon emissions and fossil fuels dependence, the substantial increase in energy demand and material production sustainability and efficiency, pollution control, clean water management and sustainable quality of life of the European citizen. In this domain, nanotechnology presents many opportunities and challenges that have to be analyzed at international level through a safe, responsible and integrated approach, as first presented by the ENF2003 conference.

By addressing the state-of-the-art of key application areas of nanotechnology research and development, the Forum will create a unique opportunity for researchers and industrial experts coming from diverse fields of science and technology to meet, discuss and co-operate, to contribute to the definition of a European nanotechnology strategy after 2009.



## **TOPICS**

The conference will cover the following tentative topics through thematic sessions:

### **Nanotechnology in Eco- & Energy-efficient industrial production**

- Applications in the chemical sector
- Applications in transportation
- Applications in construction
- Applications in textile industry
- Nanotechnology in food and feed industry

### **Nanotechnology for energy**

- Photovoltaics; More efficient lighting, (O)LEDs
- Nanotechnology for H<sub>2</sub> Production & Storage; Fuel cells
- Rechargeable batteries; Supercapacitors
- Thermoelectricity; Insulation; Combustion

### **Nanotechnology for Health and Environment**

- Nanotechnology in pollution monitoring and remediation
- Nanotechnology applications for water and waste management
- Nanomedicine - drug delivery
- Nanomedicine - diagnostics
- Nanomedicine - regenerative medicine
- Bio non-bio interfaces in medical applications

### **Future industrial technologies**

- Nanostructure characterisation and processing technology
- Supramolecular chemistry
- Polymer nanocomposites
- Nanoelectronics and nanophotonics
- Bionanotechnology
- Molecular electronics

### **Horizontal activities**

- ELSA
- European Technology Platforms
- Standardization Education
- Safety, environmental and health protection, LCA
- Education and communication

## ABSTRACT DEADLINE

If you want to take part actively, either with a talk or poster, please submit an abstract and its tentative title through the conference website:

[www.euronanoforum2009.eu](http://www.euronanoforum2009.eu)

The deadline for the abstracts is 31<sup>st</sup> March 2009.

## REGISTRATION

Before /after 20<sup>th</sup> April 2009

- Full: 350€ / 370€ (incl. VAT)

- Reduced PhD students: 150€ / 170€ (incl. VAT)

*(This fee is only applicable based on successful submission of a poster.)*

The registration closes on 19<sup>th</sup> May 2009. After that date registration will be possible on site.

- Full/reduced on site registration: 390€ / 170€ (incl. VAT)

Fee includes access to all technical sessions, poster and industrial exhibition, welcome reception, gala dinner, coffees/lunches.

## PARALLEL EVENTS

Several workshops, art exhibitions and outreach activities thematically linked to the theme of the conference, as well as poster exhibition will accompany the main conference in Prague. An award for the best young scientist taking part in the poster exhibition on nanotechnology for sustainable economy will be organized. Moreover, a series of lectures targeting young people and a road show exhibition of the NanoTruck ([www.nanotruck.de](http://www.nanotruck.de)) themed "High-tech from NanoCosmos – a world of minute proportions", will demonstrate the potential applications of nanotechnologies and their socio-economic impact.

## INDUSTRIAL EXHIBITION

The conference will also be accompanied by a special industrial exhibition demonstrating different ways of implementing nanotechnology knowledge into industrial products. The exhibition will cover areas such as nanotechnology applications for energy conversion devices, clean fuels, energy storage and transmission, pollution management (industrial waste water and reuse, drinking water, agricultural hazards, ...) and applications in the field of nanomaterials, nanoelectronics, photonics and

nanobiotechnology, as well as examples of nanoproduction and process technology. The conference will be also open to host exhibits of new and innovative concepts and services for responsible and sustainable development of nanotechnology.

## ORGANIZED BY

Technology Centre of the Academy of Sciences of the Czech Republic, with the support of the Czech Ministry of Education Youth and Sports and the European Commission.

## CONFERENCE SECRETARIAT

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EUROPEAN RESEARCH AREA



COOPERATION