

## Nanotechnology and New Materials for Business Innovation

International thematic seminar with Partnering brokerage event

27<sup>th</sup> September 2010, Prague, Czech Republic

venue

**Hotel Diplomat**

**Evropská 15, 160 00, PRAGUE 6 - Dejvice**

organized by

Technology Centre of the Academy of Sciences CR

Partner of the event:

Amires Sàrl, Switzerland

The one-day thematic seminar invites to network all key innovation actors such as academics, researchers, industrial entrepreneurs, policy-makers and decision-makers in order to exploit either undisclosed or untapped potential of nanotechnology and new materials to create sustainable alliances between material researchers and innovative industries and to create new business with widespread socio-economic impact.

### Objectives:

- Encourage the extended participation of industrial partners in FP7 (incl. SMEs)
- Connect the research groups with system integrators, producers and end-users
- Benchmark ideas and proposals with experienced international research groups
- Raise awareness and increase participation of New Member States in the FP7
- Facilitate networking and building new partnerships for effective research projects
- Create new business opportunities in technology oriented market

### « REGISTRATION »

The seminar will be held in English.

There is no registration fee for participants, number of attendees is limited and could be restricted.

Access to the online registration and partnering is available at:

<http://geform.tc.cz/nano4inno/>

All participants who wish to attend the seminar are kindly requested to register before 10<sup>th</sup> September 2010.

The event will be focused on this preliminary topics\*:

<b>Nanoparticles, nanostructures and membranes:</b>		
NMP.2011.1.4-1	Large-scale green and economical synthesis of nanoparticles and nanostructures	Large
NMP.2011.1.2-3	Active nanomembranes/-filters/-adsorbents for efficient water purification with stable or re-generable low-fouling surfaces	Small
PPP Factories of the Future	Manufacturing chains for nano-phased components and coatings	Large
<b>Health application:</b>		
NMP.2011.1.2-2	New therapeutics using nanotechnology to transport macro-molecules across biological barriers	Large
NMP.2011.1.4-4	Nanotechnology based implantable and interfaceable devices	Small
NMP-2011-2.2-2	Biomaterials for tissue engineering for age-related cancer and sensory organ diseases	Small
<b>Safety aspects:</b>		
NMP.2011.1.3-2	Worker protection and exposure risk management strategies for nanomaterial production, use and disposal	Small
NMP.2011.1.3-3	Intelligent testing strategies for nanomaterials impact and exposure – towards regulation and clustering of materials	
NMP.2011.1.3-1	New methods for measuring, detection and identification of nanoparticles in products and/or in the environment	SME
<b>Characterization tools:</b>		
NMP.2011.1.4-2	Development of nano-scale detection and control techniques for large area substrates	Large
NMP.2011.1.4-3	Tools and methodologies for imaging structures and composition at the nanometre scale	SME
<b>Electronics and photovoltaics:</b>		
NMP.2011.1.2-1	Development and up-scaling of innovative photovoltaic cell processes and architectures to pilot-line scale for industrial application, Coordinated call with ENERGY	Large
NMP-2011-2.2-1	Novel superconducting materials, architectures and processes for electrotechnical applications	Large
NMP-2011-2.2-3	Materials for solid state lighting	Small
NMP-2011-2.2-6	Fundamental properties of novel superconducting materials (coordinated call with Japan)	Small
NMP-2011-4.0-1	New technologies based on physical processing of materials for mechanical or electro-technical applications	Large

PPP Green Cars	Advanced eco-design and manufacturing processes for batteries and electrical components	Large
<b>Construction and housing:</b>		
PPP Energy-Efficient Buildings	Materials for new energy efficient building components with reduced embodied energy	Large
PPP Energy-Efficient Buildings	New efficient solutions for energy generation, storage and use related to space heating and domestic hot water in existing buildings	Large
PPP Energy-Efficient Buildings	Energy saving technologies for buildings envelope retrofitting	Large
PPP Energy-Efficient Buildings	Technologies for ensuring, monitoring and/or controlling indoor environment (including comfort, health, safety, accessibility and positive stimulation)	Small
<b>Other applications:</b>		
NMP.2011.1.1-1	Smart and multifunctional packaging concepts utilizing nanotechnology	Large
NMP-2011-2.1-1	Research and innovation for advanced multifunctional ceramic materials	SME
NMP-2011-2.2-4	Novel materials for replacement of strategic or scarce raw materials (platinum group metals and rare earths)	Small
ENV-NMP-2011-2.2-5	Development of advanced compatible materials and techniques and their application for the protection, conservation and/or restoration of cultural heritage assets. Joint Call with ENV	SME
NMP-2011-2.3-1	Advanced packaging materials from renewable biogenic resources	Small
NMP.2011.4.0-2	Advanced underground technologies for intelligent mining and for inspection, maintenance and excavation	Large
NMP.2011.4.0-3	Advanced textiles for the energy and environmental protection markets	SME
PPP Factories of the Future	High tech solutions in the production processes for customised green, safe and healthy consumer products	SME
<b>Modeling:</b>		
NMP-2011-2.1-2	Modelling of ultrafast dynamics in materials	Small
NMP.2011.1.4-5	Multiscale Modeling as a Tool for Virtual Nanotechnology Experimentation, Coordinated call with Russia	Small

\* The topics with no or very little interest of participants could be withdrawn from the list

## « CONTACT PERSON »

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