

## Nano Ostrava 2013

### 3<sup>rd</sup> Nanomaterials and Nanotechnology Meeting

#### Venue

Ostrava is the centre of the Moravian-Silesian region and, at the same time, the third largest city in the Czech Republic. In Ostrava, unique technical sights can be found as well as a wide range of cultural and sports facilities.



#### University

VŠB-Technical University of Ostrava has more than 160 years of existence. The University provides bachelor's, master's and doctoral studies at seven faculties and two university degree programs in full-time and combined forms.



#### Nanotechnology Centre (CNT)

Research at the CNT is focused on the preparation of nanomaterials for a wide set of applications in industry and medicine, including: catalysis and photocatalysis, antibacterial nanomaterials, sorption and degradation of organic pollutants, etc. An increasingly important area of focus of the Nanotechnology Centre is the assessment of the environmental and health risks of nanomaterials.

#### Travel Information

##### By plain

From the Prague Airport (Václav Havel Airport): by train with *Czech Railways* from the Prague's main railway station (Praha hlavní nádraží) you can reach Ostrava (Ostrava-Svinov station) in 3 hours; to the Prague's main railway station from airport by *Airport Express bus* or *taxi service*; see below (From the Ostrava Airport Mošnov) how to get from the Ostrava-Svinov railway station to NanoOstrava 2013

##### From the Ostrava Airport Mošnov:

the airport nearest to Ostrava is the *Leos Janacek Airport* situated about 26km/20min far from VŠB-Technical University driving distance; by bus to Ostrava-Svinov station (No. 910100, direction Ostrava-Poruba-Vozovna), continue by tram (Nos. 7, 8, 17- direction Vřesina, tram stop Areál VŠB) or bus (No. 37 direction Studentské koleje, bus stop Studentská)

##### By train

you get off the train at the Ostrava-Svinov railway station; see above (From the Ostrava Airport Mošnov) how to get from the Ostrava-Svinov railway station to NanoOstrava 2013

#### Contacts for enquiries:

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[www.nanoostrava.cz](http://www.nanoostrava.cz)

#### Conference coordinators:

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## Call for Papers



# Nano Ostrava 2013

## 3<sup>rd</sup> Nanomaterials and Nanotechnology Meeting



17 - 20 June, 2013

Ostrava, Czech Republic

#### Organised by:

Nanotechnology Centre, VŠB-TU Ostrava  
Institute of Geonics AS CR  
Czech Chemical Society  
Czech National Clay Group

[www.nanoostrava.cz](http://www.nanoostrava.cz)

#### Project partners:

**Nanobase - the bases for international cooperation**

CZ.1.07/2.3.00/20.0074

**Education improvement of museum conservation - and restoration and survey to historical materials**

CZ.1.07/2.2.00/28.0273

**IT4Innovations - Centre of Excellence**

CZ.1.05/1.1.00/02.0077

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17 - 20 June, 2013  
Ostrava, Czech Republic



## Welcome

We welcome you to the 3<sup>rd</sup> international biennial 'Nanomaterials and nanotechnology Meeting' in Ostrava. Conference will be organised in several sessions with plenary lectures focusing on important areas of Nanomaterials and Nanotechnologies. The meeting is a platform to facilitate open discussions between scientists, students and representatives from companies with a vested interest in furthering the development of nanomaterials and nanotechnology.

## Conference Topics

### Tools for preparation and characterization of nanomaterials

New trends in preparation of nanomaterials  
Methods and approaches for nanomaterials characterization  
Simulation and modeling for nanomaterials  
Chemistry and physics of nanomaterials

### Nanomaterials and their properties

Nanostructured and nanoparticle based materials  
Low dimensional materials (nanowires, clusters, quantum dots, etc.)  
Nanoceramics and Nanoporous materials  
Nanotechnology for energy generation and storage

### Nanotechnology for environment

Sensors for environmental monitoring  
Nanotechnology for cleaning up an environmental pollution  
Nanotechnology for reducing environmental negative impacts  
Interactions with living organisms  
Nanobiotechnologies & Nanomedicine

### Advances in nanomaterial technologies

New results focussing on advanced nanomaterials and their processing  
Development of functional materials and nanomaterials  
Surface and bulk properties of nanostructured materials  
Optics of nanostructured materials

### Nanomaterials of clay minerals and zeolites

Clay minerals for catalysis, nanocomposites and sorbents  
Zeolite membranes and their application  
Geopolymers and zeolites

### Education in Nanotechnology

Teaching nanotechnology subjects  
E-learning  
Nanotechnology teachers training

### Nanobusiness and commercialization of nanomaterials



## Invited Lectures

### Near-IR spectroscopy in the organo-clays studies

**RNDr. Jana Madejová, DrSc.**

Slovak Academy of Science, Bratislava, Slovak Republic

### Nano-oxide modified graphite felt for all vanadium flow redox battery

**prof. Xiaofeng Xie**

Tsinghua University in Beijing, Beijing, China

### Magnetic Silica Nanotubes - Synthesis, Drug Release, and Feasibility for Magnetic Hyperthermia

**prof. Ewa Mijowska**

West Pomeranian University of Technology, Szczecin, Poland

### Probing the quantum levels of individual semiconductor impurities

**Stuart Tessemer, Ph.D.**

Michigan State University, Michigan, U.S.A.

### Nanoparticle templated self-assembly of virus protein shells

**Bogdan Dragnea, Ph.D.**

Indiana University, Bloomington, U.S.A.

### Single-Photon Nanophotonics

**prof. Michael Cada**

Dalhousie University, Halifax, Canada

## Paper Submission

Authors are invited to submit full research paper in three journals:

Advanced Science, Engineering and Medicine (ASEM)  
Computational and Structural Biotechnology Journal (CSBJ)  
Journal of Nanocomposites and Nanoceramics (JNN)

The submission deadline is **20<sup>th</sup> June, 2013**. Manuscripts for ASEM and JNN are collected on e-mail: [grazyna.simha@vsb.cz](mailto:grazyna.simha@vsb.cz)  
Authors submitting manuscript to CSBJ need to register with the journal .

## Poster Session

Posters should be prepared in format A0 approx. 90 x 120 cm. The best students posters will be awarded.

## Abstract Submission

The abstracts will be printed in abstract booklet.

The submission deadline is **15<sup>th</sup> May, 2013**. Please download the template for the abstract on conference webpage and send the abstract to the following e-mail: [sylva.holesova@vsb.cz](mailto:sylva.holesova@vsb.cz)

The language of conference will be English.

## Registration

Please download the registration format template on conference webpage and send it to the following e-mails: [nanoostravareg@gmail.com](mailto:nanoostravareg@gmail.com)  
[karla.barabaszova@vsb.cz](mailto:karla.barabaszova@vsb.cz)

The registration deadline is **20<sup>th</sup> May, 2013**.

[www.nanoostrava.cz](http://www.nanoostrava.cz)