

Nano Ostrava 2013

3rd 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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Call for Papers



Nano Ostrava 2013

3rd 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

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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3rd Nanomaterials and Nanotechnology Meeting

17 - 20 June, 2013
Ostrava, Czech Republic



Welcome

We welcome you to the 3rd 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 **20th June, 2013**. Manuscripts for ASEM and JNN are collected on e-mail: 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 **15th 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

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
karla.barabaszova@vsb.cz

The registration deadline is **20th May, 2013**.

www.nanoostrava.cz