

Conference topics

1. Nanomaterials and nanoparticles

Chairman: Pavla Čapková

- New methods of preparation
- Polymeric nanocomposites
- Nanocarbons structure and properties
- Nanoceramics and nanoporous materials
- Techniques for characterization in nanotechnology

2. Advanced computational modeling of materials and nanostructures

Chairman: Miroslav Pospíšil

- Ab-initio modeling of novel materials and nanostructures
- Molecular modeling and simulations of layered nanostructures and nanocarbons
- Molecular simulations of polymers and polymeric nanocomposites
- Molecular simulations in design of drug carriers
- Advances in computational methods and software tools for nanotechnology

3. Terahertz technology and nanostructures in photonics and electronics

Chairman: Mathias Vanwolleghem

- Terahertz photonics and applications
- Nanotechnology for electronic devices
- Photonics, optoelectronics and magneto-optics

4. Photovoltaic nanomaterials and physical nanoscience

Chairman: Martin Foldyna

- New materials and concepts for solar cells
- Nanotechnology for energy generation and storage
- Characterization of nanostructures and physical nanoscience

5. Bionanotechnology – “green” principles for nano

Chairman: Marek Kolenčík

- Biosynthesis of nanoparticles and their applications
- Bio-inspiration for progressive and sustainable nanostructured materials
- Biologically inspired nanodevices
- Biomineralization – magnetosomes, biosilica, self-assembly structures

6. Nanotechnologies for medicine

Chairman: Josef Jampílek

- Nanomaterials for drug delivery
- Biocompatible nanomaterials
- Pharmaceutical nanotechnology
- Interaction of nanoparticles and living systems

Organizers

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)

CNT is research centre focusing on study and technologies of nanomaterials of broad application areas. Members of centre collaborate actively with industry and many national and foreign research institution, being involved in world class research of excellent projects. CNT is major leader in education of nanotechnology at VŠB-TUO and guarantee popular study program Nanotechnology.



Institute of Geonics of the CAS

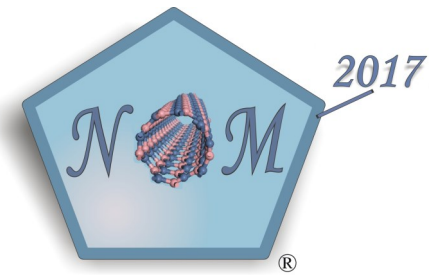
The activity of IGN is the scientific research motivated by the versatile utilization of the earth's crust, i.e. research on geomaterials, processes inside the earth's crust, especially processes induced by human activity, and their impact on the environment.



Important dates

March 31, 2017	Early-bird registration and payment of conference fee
April 25, 2017	Last date for submission of abstracts
May 5, 2017	After this date-conference bag and abstract booklet isn't assured
May 17, 2017	Last date for registration
June 20, 2017	Submission of conference papers

Attractive scientific and social programme will be prepared for you.



International conference

Nano Ostrava 2017

May 22-25

5th Nanomaterials and Nanotechnology Meeting



www.nanoostrava.cz

Invited lecturers



Stephen Mahler

ARC Training Centre for Biopharmaceutical Innovation; Australian Institute of Bioengineering and Nanotechnology, School of Chemical Engineering, University of Queensland, Australia.



Jan Rusz

Department of Physics and Astronomy, Materials Theory, Uppsala University, Sweden.



Antonín Fejfar

Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic.



László P. Biró

Nanostructures Department from the Institute for Technical Physics and Materials Science, Centre for Energy Research, Hungarian Academy of Sciences, Budapest, Hungary.



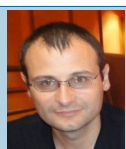
Filip Kadlec

Laboratory of Terahertz Spectroscopy, Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic.



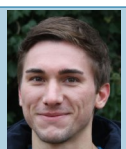
Martin Foldyna

LPICM, Ecole Polytechnique, Palaiseau, France.



Emilien Peytavit

Institute of Electronics, Microelectronics and Nanotechnology, Lille, France.



Tom Seifert

Department of Physical Chemistry, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Germany.

and

Markus Rösch

ETH Zurich, Switzerland.

Conference papers

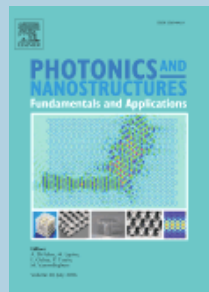
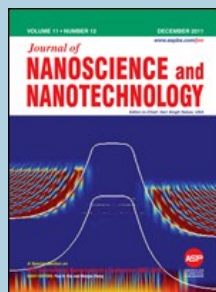
Papers presented at Nano Ostrava 2017 will be published, subject to passing the stringent peer review process, in the following journals:

Journal of Nanoscience and Nanotechnology (IF 1.338)

Editor-in-Chief: Dr. Hari Singh Nalwa, USA

Photonics and Nanostructures: Fundamentals and Applications (IF 1.505)

Editor: Dr. Mathias Vanwolleghem, France



Conference fee

	Early Bird by March 31, 2017	after April 1, 2017
Returning Conference Participant	270 EUR	310 EUR
Regular Fee - Presenting Author	350 EUR	390 EUR
Student	200 EUR	230 EUR
Accompanying Person	235 EUR	235 EUR

For more information see our web-site:

www.nanoostrava.cz

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Conference will visit representatives of companies:



and many others...

Organizing committee

Jaromír Pištora – Chairman of Conference

Nanotechnology Centre:

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Daniela Plachá
Karla Čech Barabaszová
Gabriela Kratošová

Sylva Holešová
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Department of Physics:

Kamil Postava

Institute of Physics:

Michal Lesňák

Institute of Geonics of the CAS:

Lenka Vaculíková
Věra Valovičová

Eva Plevová

Contact: nanoostravareg@gmail.com

**We look forward to meet you in Ostrava
May, 2017**