

The 9th International Conference on Physical and Numerical Simulation of Materials Processing



First Announcement

**October 10-14
Moscow, Russia**

The 9th International Conference on Physical and Numerical Simulation of Materials Processing (ICPNS'2019) following the tradition of its eight predecessors in USA (Seattle-2016), Finland (Oulu-2013) and China (Guilin 2010, Zhengzhou-2007, Shanghai-2004, Beijing-1999, Hainan-1997, Harbin-1990) provides a forum for researchers around the world to present papers on recent advances in the overall field of physical & numerical methods and their applications in materials processing and testing.

ORGANIZED BY

Tikhonov Moscow Institute of
Electronics and Mathematics of
National Research University
Higher School of Economics

International Federation on
Physical and Numerical Simulation
of Materials Processing (IFPNS)

<https://icpns2019.hse.ru>

SCOPE AND TOPICS

The conference will cover all aspects of Physical and Numerical Simulation of Materials Processing. The focus will be on (but not limited to) the following topics:

1. Physical simulation of forming operations and thermo-mechanical processing of materials
2. Design and optimization of materials processing technologies
3. Mathematical and numerical models of materials constitutive behavior
4. Atomistic and multiscale computer simulation
5. Materials characterization
6. Radiation, microwave and laser processing of materials
7. Nondestructive testing
8. Intelligent manufacturing
9. Modelling and Simulation in Metallurgical Processing
10. Software Engineering and Software Development for Material Processing, Computation and Design
11. Additive Manufacturing, Processes and Materials
12. Simulation of Phase Transformations and Microstructural Evolution
13. Material Design Approaches and Experiences, Computation Materials Science and Molecular Dynamics Simulation
14. Sustainability through Materials Processing and Waste Valorization

IMPORTANT DATES

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|----------------------------------|----------------------------|
| - Abstract Submission due: | March 01, 2019 |
| - Deadline for Full Manuscripts: | April 15, 2019 |
| - Final Program on the website: | September 30, 2019 |
| - Date of the conference: | October 10-14, 2019 |

PUBLICATION

All accepted abstracts will be printed in the proceedings of ICPNS'2019. Full manuscripts after peer review will be published in SCI / EI indexed periodicals.

CONFERENCE FEES

	Early bird <i>Before April 30, 2019</i>	Standard <i>Before May 31, 2019</i>
Regular participant	700 USD	800 USD
Student	450 USD	800 USD
Accompanying person	350 USD	350 USD

SOCIAL PROGRAM

During and after the conference, the organization committee will arrange a tour program for participants and companions to visit most popular attractions in Moscow.

A one day trip to St. Petersburg including visiting Peter the Great St. Petersburg Polytechnic University (SPbPU) will be organized as an optional activity (for additional payment).

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