

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

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**Call for papers**

**October 10-14  
Moscow, Russia**

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The 9th International Conference on Physical and Numerical Simulation of Materials Processing (ICPNS'2019) follows 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) and 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>

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## 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 modeling 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 materials 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 material science and molecular dynamics simulation
14. Sustainability through materials processing and waste valorization

## IMPORTANT DATES

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|--|---|
| - Abstract submissions due:                | April 15, 2019 ( <i>postponed to <b>June 20, 2019</b></i> ) |
| - Deadline for full manuscript submission: | <b>June 20, 2019</b>  |
| - Final program on the website:            | <b>September 30, 2019</b>                                   |
| - Dates of the conference:                 | <b>October 10-14, 2019</b>                                  |

## PUBLICATION

All accepted abstracts will be printed in the proceedings of ICPNS'2019.

Full manuscripts after peer review will be published in [Procedia Manufacturing](#), an open access Elsevier journal available in [ScienceDirect.com](#) and indexed in world leading scientific databases including **Scopus** and **Web of Science**.

## SOCIAL PROGRAM

During 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 will be organized as an optional activity (for additional payment), including visiting Peter the Great St. Petersburg Polytechnic University (SPbPU).

## CONFERENCE FEES

	<b>Early bird Before July 20, 2019</b>	<b>Standard Before August 30, 2019</b>
<b>Regular participant</b>	500 USD	600 USD
<b>St.Petersburg session</b>	300 USD	300 USD
<b>Student</b>	350 USD	600 USD
<b>Accompanying person</b>	350 USD	450 USD

Participant fee includes:

- Access to Plenary Session, Parallel Sessions, Poster Session and Exhibition
- Participant bag, book of abstracts and conference program
- Lunch & coffee breaks during the conference
- Social program, welcome reception, conference diner
- Certificate of participation

Accompanying person fee includes:

- Accommodation in the conference hotel (double room)
- Social program, welcome reception, conference diner

St.Petersburg session fee includes:

- Access to Plenary Session in Peter the Great St. Petersburg Polytechnic University
- Meals, coffee and banquet
- Excursions

## VENUE

ICPNS'2019 will take place in HSE Moscow Institute of Electronica and Mathematics (MIEM HSE) located in Strogino - one of the most environmentally friendly areas of the Russian capital with the direct transport access to the Moscow center.

**Address:** *Tallinskaya 34, Moscow, Russia, 123458*

## SUGGESTED HOTELS

### MOSCOW

#### **\*\*\* Hampton by Hilton Strogino**

The hotel is in the walkable distance from MIEM HSE.

**WEB:** Hampton by Hilton Strogino

**Address:** *Kulakova Street Bld. 1, 20, Moscow, Russia, 123592*

#### **\*\*\*\*\* Hyatt Regency Moscow Petrovsky Park**

The transfer to this hotel will be organized for the conference participants.

**WEB:** Hyatt Regency Moscow Petrovsky Park

**Address:** *Leningradsky Avenue 36 building 33, Moscow, Russia, 125167*

### St.PETERSBURG

St.Petersburg session (October 14-15) will be held in Peter the Great St. Petersburg Polytechnic University. The participants attending this session are suggested to stay at the following hotel:

#### **\*\*\*\* Original Sokos Hotel Olympia Garden**

The transfer to this hotel will be organized for the conference participants.

**WEB:** Original Sokos Hotel Olympia Garden

**Address:** *Bataiskii Pereulok 3 A, St. Petersburg, Russia, 190013*

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