

International Conference

"Supercomputer Simulations in Science and Engineering"

September 6-10, 2016, Moscow, Russia

ORGANIZED BY:

National Research University Higher School of Economics
Science Center in Chernogolovka
Landau Institute for Theoretical Physics

Supercomputer simulations are fast growing approach for doing research in sciences and engineering. The main goals of the conference is i) in the exchange ideas in development of methods and algorithms which take into account trends in the hardware development, and which may help to intensify research, and ii) in the presentations of the results of supercomputing simulations in science and engineering. Conference should play role of the venue where senior scientists and students may have opportunity to speak each other and exchange ideas and views on the developments in the area of supercomputing simulations.

Program of the conference is concentrated on the analysis and discussion of research and activity in supercomputer simulations that generally lie on the boundary of scientific branches, i.e. which are multidisciplinary research.

Conference program are based also on the background of activity of Russian researchers in computing, physics, mathematics, and engineering.

Important feature of the conference is a large number of young researchers and students, with poster and oral presentations.

KEYNOTE SPEAKERS:

Sergey Glyzin, Russia - *"Spatially inhomogeneous modes of logistic equation with delay and small diffusion in a flat area"*

Nail Inogamov, Russia - *"Simulations of short pulse laser-matter interaction"*

Wolfhard Janke, Germany - *"Generalized ensemble computer simulations for structure formation of semiflexible polymers"*

Vladimir Koren'kov, Russia - *"Distributed computing and Big Data in JINR"*

Sergey Moiseenko, Russia - *"Application of Lagrangian completely conservative implicit operator-difference scheme for the simulation of magnetorotational processes in astrophysics"*

Igor Petrov, Russia - *"Numerical modeling of 3D dynamic processes in the heterogeneous continuous medium"*

Arkady Satanin, Russia - *"Simulation of down-conversion processes in quantum circuit electrodynamics"*

Boris Shabanov, Russia - TBA

Lev Shchur, Russia - *"New trends in high performance simulations"*

Vladimir Stegailov, Russia - *"Supercomputer architectures and acceleration of molecular dynamics calculations"*

Martin Weigel, United Kingdom - *"Massively parallel Monte Carlo simulations with population annealing"*

TOPICS:

- Methods and approaches in supercomputer simulations
- Parallel and distributed computing
- Trends in programming for supercomputing
- Distributed systems for big data processing
- Application of supercomputer simulations in sciences
- Application of supercomputer simulations in engineering
- High education in the area of supercomputer simulations

PROGRAM COMMITTEE:

| | |
|------------------------------------|------------------------------------|
| Chetverushkin Boris, Russia | Petrov Igor, Russia |
| Evtushenko Yuri, Russia | Shabanov Boris, Russia |
| Ilyin Viacheslav, Russia | Shchur Lev, Russia |
| Ivannikov Viktor, Russia | Sokolinsky Leonid, Russia |
| Korenkov Vladimir, Russia | Voevodin Vladimir, Russia |
| Nazirov Ravil, Russia | Zhizhchenko Aleksey, Russia |

LOCAL ORGANIZING COMMITTEE:

Belov Alexander - chair; director, Department of Applied Mathematics, Higher School of Economics
Aksenov Sergey - Higher School of Economics
Kalinikova Valentina - Higher School of Economics
Krashakov Serge - Landau Institute for Theoretical Physics
Shikota Svetlana - Science Center in Chernogolovka RAS

VENUE:

Tallinskay ul. 34, Moscow

WEBSITE:

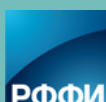
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CONFERENCE CHAIR:

Lev Shchur



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