

CHEBYSHEV 2016 INTERNATIONAL CONFERENCE. FIRST CALL FOR PAPERS

Surgut State University (Surgut, Russian Federation) hosts the *Mathematics and Information Technology for Oil and Gas Industry International Conference on May 16–20, 2016 commemorating the anniversary of P. Chebyshev, the great Russian mathematician.*



Pafnuty Chebyshev (1821–1894)

The conference will be next in the series of the six *Chebyshev Mathematical Ideas and their Applications to Modern Problems of Natural Sciences* conferences held in 2002–2014.

The conference is supported by Surgut State University, Research Institute of System Studies (a Federal Research Center, Russian Academy of Sciences), Moscow State University and the Russian Basic Research Foundation.

The Conference is intended to bring together a community of experts in nonlinear models and information technology working in the field of theory and approximate methods in mathematical physics, continuum mechanics, mathematical modeling, parallel algorithms and high performance computer systems, big data processing, computer visualization, difference methods, and singularly perturbed ill-posed problems, approximation theory, probability theory and their applications to modern problems of natural sciences including energy, oil and gas industries.

The key research areas are:

- Number theory, probability theory and mathematical statistics
- Differential equations and functional analysis
- Computational mathematics
- Programming models and systems
- Viscous fluid dynamics
- Heat and mass transfer
- Physicochemical hydrodynamics of multiphase media
- Thermofluid dynamics of seepage flows
- Data collection and transmission
- Data processing and information analysis
- Hydrodynamic modeling for oil&gas field development
- Big data and real-time Enterprise 2.0
- Competence development and continuing education
- Enterprise architecture and business processes
- SAP systems for production and management
- IT solutions infrastructure and operation
- IT project management and IT project portfolio
- Computer security
- Integrated workflows
- Problems of modern science, education, and the scientific heritage of P. Chebyshev
- Session for young researchers

Important Dates:

March 1, 2016: Online submission deadline for applications (through the conference at site <http://chebconf.ru>)

March 14, 2016: Online submission deadline for short papers (through the conference at site <http://chebconf.ru>)

April 1, 2016: Notification of acceptance deadline. A preliminary program of the Conference is available.

May 16, 2016: The Conference opens.

16-20 May 2016: The Conference is in progress.

May 21, 2016: The Conference closes.

Chair of the Organizing Committee:

Prof. V.B. Betelin, Institute for System Development (a Federal Research Center, Russian Academy of Sciences), member of the Russian Academy of Sciences.

The Program Committee Members:

- V.Ya. Panchenko, Member of the Russian Academy of Sciences, Chairman of the Board of the Russian Basic Research Foundation

- A.L. Semenov, Member of the Russian Academy of Sciences, Rector, Moscow State University of Education

- Prof. S.M. Kosenok, Rector, Surgut State University

- Prof. A. Papadopoulos, University of Strasbourg, France

- F. De Rosa, Dr., Ing., ENEA, Bologna, Italy

- Prof. F. Altomare, University of Bari, Italy

- Prof. V.A. Galkin, Director, Polytechnical Institute, Surgut State University

- Prof. N.N. Smirnov, Deputy Director, Institute of System Studies, Russian Academy of Sciences

- Prof. R.M. Shagaliev, Deputy Director, Institute of Theoretical and Mathematical Physics, Sarov

- Prof. A.G. Sergeev, Steklov Mathematical Institute, Russian Academy of Sciences

- Prof. V.N. Chubarikov, Moscow State University

- Prof. R.D. Gimranov, Head, IT Department, Surgutneftegas

Young researchers: graduate and post graduate students of the leading Russian universities and research institutes will present their works. There will be roundtables for young scientists and leading experts on the scientific heritage of P. Chebyshev to jointly discuss the works presented by the young professionals.

The Conference languages are **Russian, English**.

Please register online at <http://chebconf.ru> prior to March 1, 2016. Your application will include:

- Research area

- Name (-s) of the author (-s)

- Paper title in English and Russian

- Affiliation (-s) and position (-s) of the author(-s)

- Email of the contact person.

Please visit <http://chebconf.ru> for up-to-date information on the Conference. The site has links to the previous conference sites, and the proceedings are available for downloading.

Please note the short paper submission deadline: March 14, 2016. The short papers are up to two A4 pages long (including references). We will inform you when the paper submission page is available. The collection of short papers will be published by the beginning of the Conference and posted on the site. A collection of extended papers will also be published later.

The Organizing Committee invites you and your colleagues to joint the Conference.

**Chairman of the Scientific Organizing Committee,
Member of the Academy of Sciences**



V. B. Betelin