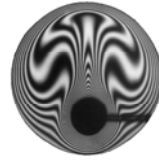


PRELIMINARY ANNOUNCEMENT



The 15th International Symposium on Flow Visualization
ISFV15

Belarus National Academy of Sciences
Luikov Heat & Mass Transfer Institute
Minsk, Belarus, June 25-28, 2012
<http://www.isfv15.com/>



Luikov Heat and Mass Transfer Institute

**15th International Symposium
on Flow Visualization**



ISFV 15

June 25-28, 2012, Minsk, Belarus



The International Symposium on Flow Visualization originated in Tokyo (Japan) in 1977 and continued in Bochum (Germany) in 1980, Ann Arbor, Michigan (USA) in 1983, Paris (France) in 1986, Prague (Czechoslovakia) in 1989, Yokohama (Japan) in 1992, Seattle, Washington (USA) in 1995, Sorrento (Italy) in 1998, Edinburgh (UK) in 2000, Kyoto (Japan) in 2002, Notre Dame, Indiana (USA) in 2004, Göttingen (Germany) in 2006, Nice (France) in 2008 and in Daegu (Korea) in 2010. The objective of the ISFV-Symposia-series is to provide a forum for the exchange of information within the broad field of flow visualization. A wide variety of experimental and numerical visualization techniques for basic and applied fluid dynamic/heat and mass transfer problems are of interest, and are welcome for presentations.

The 15th International Symposium on Flow Visualization will be held in Minsk, Belarus, during June 25-28, 2012, at the **Luikov Heat and Mass Transfer Institute** of the National Academy of Sciences of Belarus. In cooperation with leading **Russian Institutions and Universities, Flow Visualization Society of Japan, Flow Visualization Society of Korea, and International Shock Wave Institute**, we are pleased to host ISFV15. The Symposium is a premier event in the area of visualization combined with optical quantitative and qualitative measurements applied over a wide range of disciplines that depend upon these techniques. These include the following aspects of applications and methods:

Areas of interest

- Experimental and computational fluid mechanics (subsonic, transonic and supersonic flows, rotating flows, boundary layers, flow turbulence, *etc.*)
- Mechanical, chemical and bio-inspired engineering (industrial processes, turbomachines, *etc.*)
- Heat and mass transfer (thermal and convective effects, vortex enhancement, radiation, *etc.*)
- Multiphase flows
- High-speed and non-stationary phenomena (blast waves, shock waves, combustion, explosion and detonation)
- High temperature gasdynamics (plasma dynamics, particle-laden plasma flows, engines, high-speed vehicles, re-entry vehicles)
- Environmental flows, pollutant emission and control, clean fuel technologies, meteorology, oceanography, natural convection
- Food and agricultural technologies
- Metallurgy, porous media, liquid droplets breakup
- Micro and nano-flows, micro-gravity flows
- Medical/biological flows, musical acoustics, artistic visualization, art *etc.*

Methods & Techniques

Methods include, but are not limited to, the following:

- Classical and advanced optical methods (schlieren, shadowgraph, interferometry, holography, holographic interferometry, speckle, background oriented schlieren, Talbot, *etc.*)
- Laser based methods (particle image velocimetry, laser induced fluorescence, *etc.*)
- Laser sheet imaging (smoke and particle visualization, *etc.*)
- Absorption/emission recording, spectroscopy
- Electronic sparks and discharge
- IR thermography, liquid crystals and pressure sensitive paints
- Digital data acquisition and processing (image processing and image-assisted methods)
- Numerical flow visualization (computational fluid dynamics)
- Tomographic reconstruction

Symposium Venue



The Colloquium will be held in Minsk, the capital of Belarus, a large industrial, scientific and cultural center, see www.minsk.gov.by; www.minsk.nemiga.info. The Luikov Heat and Mass Transfer Institute (HMTI) of National Academy of Science of Belarus was founded in 1956, and is now one of the biggest research institutes in Belarus, with a total staff of about 600 persons. HMTI will be responsible for organizing the ISFV15, see <http://www.itmo.by/>.

Exhibitions

A technical exhibition will be held at the symposium site. Participants will have an opportunity to view recent advances in research technique and vendor demonstrations. Information on registration for exhibitors will be available via exhibition manager, Professor A. Aroussi (aroussi@petronas.com.my), on the ISFV15 web-site and in the first ISFV15 announcement.

ISFV15 Organization

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T. Yoshida (Japan), IOB

G.M. Zharkova (Russia), IOB+ PB

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N. Bazulev (Finances)

N. Evmenchikov (Social events)

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O. Meleeva (Secretary)

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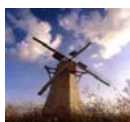
I. Voitov, Professor, Chairman of State Committee on Sciences and Technology

V. Orlovich, Academician, Chairman of Belarus Foundation of Basic and Applied Researches

B. Khrustalev, Academician, Rector of Belarus Polytechnical University

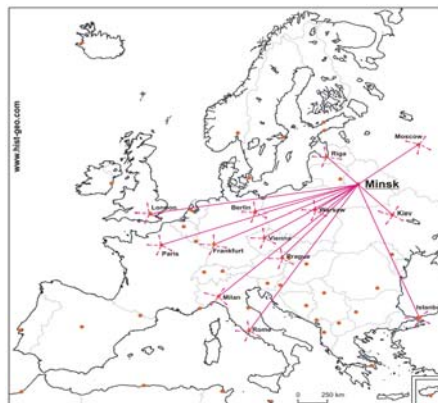
Invited lectures and key-note papers (in progress)

Social events



The Local Committee is also planning unique and colorful social programs through which all participants may enjoy the soft Byelorussian culture and the warm Byelorussian spirit of friendship.

Transportation



Minsk has direct flight connections with Moscow, St-Petersburg, Warsaw, Frankfurt, Berlin, Vienna, Rome, Milan, London, Paris, Prague, Tel-Aviv, and Riga, and convenient night trains to Moscow, St-Petersburg, Kiev, Vilnius, and Warsaw.

Registration

The details of registration will be provided in the first announcement that will be released soon.

We look forward to your enthusiastic interest and participation.

Prof. Nikita Fomin
ISFV 15 Chairman

Address

e-mails, web-site

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The time-line leading up to the ISFV15

Preliminary Announcement	September,	2010
First ISFV15 Announcement	December,	2011
Invited lectures and key-note papers selection	March,	2011
Second ISFV15 Announcement and Call for Papers	August,	2011
Abstract Submission	December,	2011
Author Notification	March,	2012
Manuscript Submission	April,	2012
Early Registration	April,	2012
On-site Registration	June 24,	2012