



Fourth International
Scientific School for
Young Scientists

Waves and vortices in complex media Moscow November 26 – 29, 2013

School venue is Institute of Applied Mechanics of
the Russian Academy of Sciences
(IPRIM RAS)



IPRIM RAS, 125040, Moscow, Leningrad Avenue, 7,

INVITATION TO PARTICIPATE ANNOUNCEMENT

The program of the school includes plenary
and oral presentations.
Proceedings of the school will be published

Forthcoming school prolongs a series of seminars and
schools dedicated to investigation findings on the
Program "Waves and vortices in complex media" by the
OEMMPCU RAS.

INFORMATION FOR PARTICIPANTS

Conference languages: Russian and English
Participants present electronic version of the:

- **Registration form;**

- **Presentation materials** prepared in MS Word,
12 pt, up to 3 pages framed by 16×24 cm. **TITLE
OF THE PRESENTATION**, authors' names and
addresses prepared as per sample given at school
website.

Conference information package will be distributed
at the registration.

The conference program provides lectures (30
min), oral presentations (extended -15 min, short 5
min), and discussion sections on which all the
participants will have opportunities to present the
materials on the PC's for concurrent discussions.
Conference rooms are equipped with blackboards,
screens, slide- and video-projectors.

KEY DATES

Registration form and presentation materials
before 10st October 2013

Author notification on acceptance
before 15th October 2013

REGISTRATION FEE

Regular participant fee is 2000 rub.

The fee can be paid in cash at the registration
desk or by bank transfer order.

Requisites are available on request.

Registration fee is cancelled for young scientists
and research scientists involved in the 13 OE
OEMBMCP RAS Program.

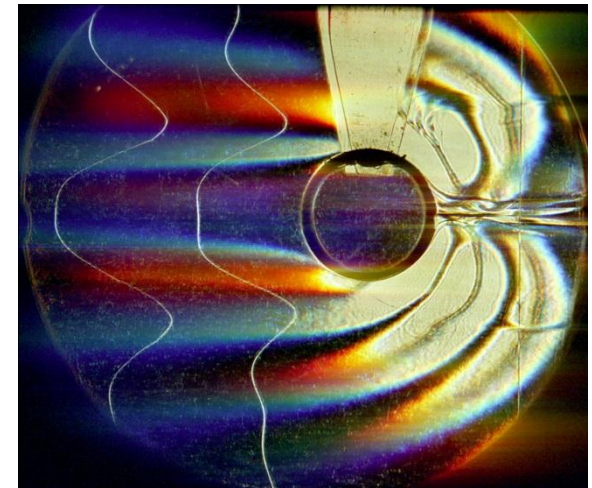
ACCOMMODATION

Participants accommodate in hotels on their own
choice, or in a dormitory of the RAS on request
(number of rooms is limited).

SCIENTIFIC PROGRAM

- **Fundamental equations and constitutive models of flows of complex media;**
- **Methods of mathematical and laboratory modeling of complex media;**
- **Modern experimental technique and equipment;**
- **Waves, vortices, coherent structures and turbulence;**
- **Mechanics of inhomogeneous liquids, gas-liquid systems and suspensions in superimposed electric and magnetic fields;**
- **Technical and technological applications.**

Papers on similar topics can be included in the
school. Number of papers presented by one
author is not limited.



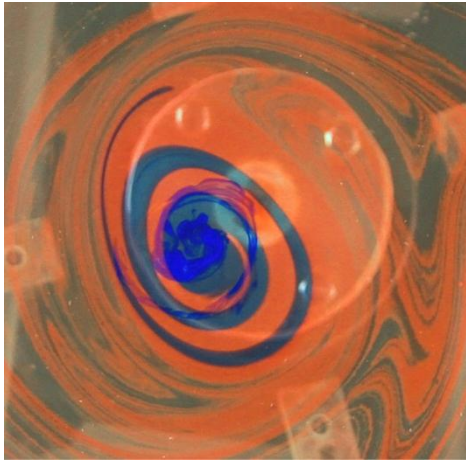
Schlieren image of the stratified flow around a circular cylinder

REGISTRATION

Registration will take place in the IPMech RAS
(room 253) starting from 25th November 2013

INTERNATIONAL PROGRAM COMMITTEE

T.O. Chaplina (sc. secr.), Prof.
Yu.D. Chashechkin (dep. Chair.), Corr.m. RAS
D.A. Gubaidulin (deputy chair), Ac. V.M. Fomin,
Prof. P. Fraunie (Fr), Ac. A.G. Kulikovskiy (chair),
Prof. A.F. Pshenichnikov, Corr.m. RAS
V.V. Pukhnachev, Prof. C.F. Urmacheev, Prof.
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GENERAL INFORMATION

Update technology of contact and remote sensing, development and improvement of mathematics and computing have opened up new opportunities to study the waves and vortices - key components of currents, which play a dominant role in the dynamics of natural and industrial systems, and form the basis of a number of high-performance technologies.

Their study is of interest to a number of related disciplines, such as chemistry, biology, pharmacy, which involves the transport processes and the redistribution of the matter.

Not only processes have been complicated, but the investigated media, usually multi-phase, multi-component, and stratified. Development of new approaches, a vast flow of experimental data contributed to the development of theoretical fluid dynamics, which, in turn, demands depth requirements for methods and techniques of hydrodynamic experiments. Solving the scientific problems will improve the description, specification and development of the forecast of new management trends in natural systems and processes.

HOW TO GET

Metro Station "Belarusskaya" (Zamoskvoretskaya line). Then walk about 10 minutes to IPRIM RAS.



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Waves and vortices in complex media



SPONSORS

Russian Academy of Sciences

Russia Foundation for Basic Research

Organizers

Presidium of the Russian Academy of Sciences

Federal Budget institutions of the Russian
Academy of Sciences:

A. Ishlinsky Institute for Problems in Mechanics

Institute of Applied Mechanics

Steklov Mathematical Institute

Upcoming event continues a series of schools on actual problems of theoretical and experimental fluid mechanics, taken place in IPMech RAS in 2010, 2011, 2012.

To participate in the school are invited scholars of all specializations: experimentalists, theoreticians (both analytic and numeric) and mathematicians. Lectures are delivered by well-known experts in the key branches of mechanics and mathematics, as well as young scientists, making deep original research. Support for the organization provided by the Russian Academy of Sciences and the Russian Foundation for Basic Research allowed to cancel the registration fee for part of participants.