



Eighth International  
Scientific School for  
Young Scientists

## WAVES AND VORTICES IN COMPLEX MEDIA

**Moscow**  
**07 – 09 November, 2017**

Conference venue is A.Yu. Ishlinskiy Institute for Problems in Mechanics of the RAS (IPMech RAS)



Moscow 119526, 101 (1) prospect Vernadskogo

### ANNOUNCEMENT INVITATION TO PARTICIPATE

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

### 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 (15 min) and poster (stand 2×1 m + short informative presentation up to 5 minutes). Conference rooms are equipped with blackboards, screens, slide- and video-projectors.

### KEY DATES

Registration form and presentation materials  
**before October 01, 2017**

Author notification on acceptance

**before October 10, 2017**

### 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 (before 35 years old) and research scientists involved in the OE III-4 DEMbMCP RAS Program.

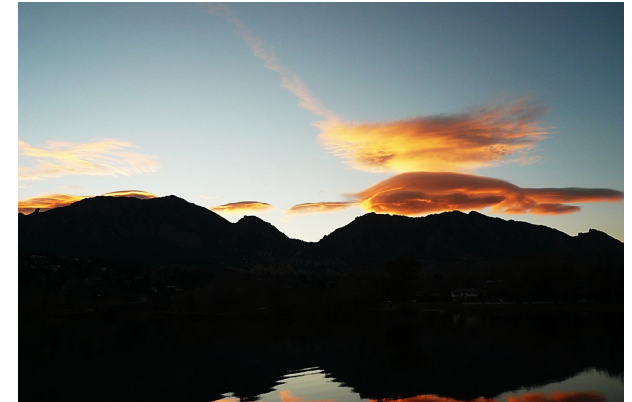
### ACCOMMODATION

Participants accommodate in hotels on their own booking ([booking.com](http://booking.com)).

### SCIENTIFIC PROGRAM

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

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



The family of the clouds in the lee (attached) internal waves  
(Foothills of the Rocky Mountains, Boulder, USA, November 12, 2012)

### REGISTRATION

Registration will take place in the IPMech RAS (room 253) starting from 6 November 2017

## INTERNATIONAL PROGRAM COMMITTEE

Dr. T.O. Chaplina (sc. secr.), Prof.  
Yu.D. Chashechkin (deputy chair), Prof.  
P. Fraunie (Fra), Prof. Ya. Fukumoto (Jap), Prof.  
S.V. Golovin (Rus), Corr.m. RAS D.A. Gubaidullin  
(deputy chair), Acad. RAS A.G. Kulikovsky  
(chair), Acad. RAS Mokhov, Acad. RAS  
R.I. Nigmatulin, Prof. J.M. Redondo (Spain),  
Corr.m. RAS A.N. Shipluk, Prof. M. Sommerfeld,  
Prof. V.M. Somsikov (Kaz),  
Prof. C.F. Urmacheev (deputy chair)



Spreading of droplets of solution of potassium permanganate in water

### Contacts

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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 flows, which play a dominant role in the dynamics of natural and industrial systems, and form the basis of a number of high-performance technologies.

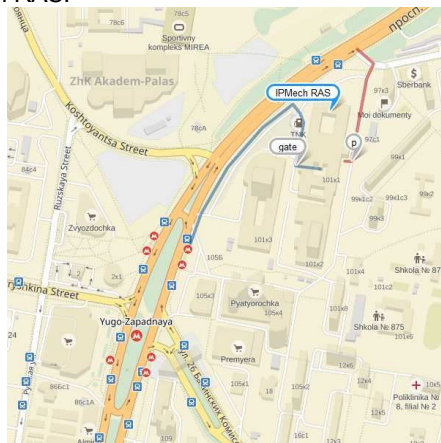
The study of periodic flows tends of interest for mechanics and a number of related disciplines: physics, chemistry, biochemistry, in which transport processes and redistribution of materials are studied.

Their investigation 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.

Physical processes in the investigated media, usually multi-phase, multi-component, and stratified are complicated. 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 "Yugo-Zapadnaya". The exit from the last subway car. Then walk about 10 minutes to IPMech RAS.



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## SPONSORS

Federal Agency for Scientific  
Organisations

Russia Foundation for Basic Research

Russian Academy of Sciences

## Organizer

A.Yu. Ishlinsky Institute for Problems in  
Mechanics of the RAS

Upcoming event continues a series of schools on actual problems of theoretical and experimental fluid mechanics in 2010, 2011, 2012, 2013, 2014 and 2016 in Moscow) and 2015 in Kaliningrad.

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 sponsors allowed to cancel the registration fee for part of participants.