



Eleventh International
Conference – School of
Young Scientists

WAVES AND VORTICES IN COMPLEX MEDIA

Moscow

01 – 03 December 2020

Conference venue:

Ishlinsky Institute for Problems in Mechanics of
the Russian Academy of Sciences (IPMech RAS)



101/1 Prospect Vernadskogo, Moscow, 119526

ANNOUNCEMENT INVITATION TO PARTICIPATE

The conference - school program includes
invited and oral presentations as well as short
communications.

Conference materials 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 the
website:

http://ipmnet.ru/files/conf/2020waves_school/template_Waves_School_2020_en.doc

The program will include invited lectures (30 min),
oral talks (15 min), and communications (3 min +
poster at A0). Meeting rooms are equipped with
boards, screens, multimedia projectors.

It is planned to publish a collection of conference-
school materials and texts of selected reports for
publication in the thematic issues of the journals
"Izvestiya RAS. Fluid dynamics" "Prikladnaya
matematika i mekhanika", and "Disaster
Advances".

Conference information package will be distributed
at the registration.

KEY DATES

Registration form and presentation materials
before October 01, 2020

Author notification on acceptance
before October 15, 2020

REGISTRATION FEE

Regular participant fee is 2000 rub. For young
scientists (before 35 years old) – 500 rub.

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

Bank details are available on request.

Contract and invoice sent upon request

ACCOMMODATION

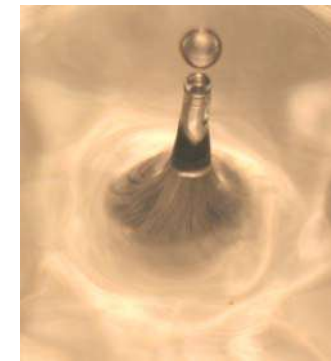
Participants accommodate in hotels on their own
booking (trivago.ru, booking.com, etc).

SCIENTIFIC PROGRAM

- **Fundamental equations and constitutive models of flows of complex media;**
- **Methods of mathematical simulation and laboratory modeling of flows;**
- **Ligaments, waves, vortices, coherent structures and turbulence;**
- **Mechanics of regular and complex fluids with sludge, ice, foam, bubbles, phase transitions, as well as gas-liquid systems and suspensions, including external forcing fields;**
- **Modern experimental techniques;**
- **Engineering and technology applications.**

A Thematic Session is planned on the topic:
"Impacts of the ideas and work of
Academician S. A. Khristianovich (10.27.1908
- 04.28.2000) on the modern mechanics of
fluids and gases"

Papers on relevant topics can be submitted to the
school, with no restrictions on the number of
papers presented by one author.



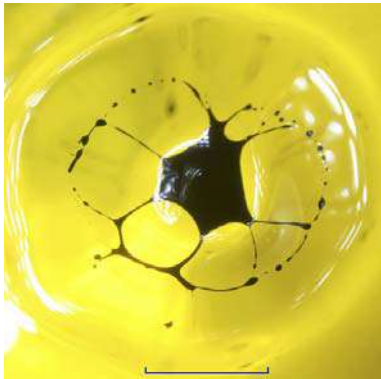
Splash of water drop on water surface

REGISTRATION

Registration will take place in the IPMech RAS
(lobby of the main hall or room 235) starting from
01 December 2020

INTERNATIONAL PROGRAM COMMITTEE

Acad. RAS A.G. Kulikovskiy (honorary chair), Dr. V.G. Baydulov – sci. secr., Prof. T. Bodnar (Czech), Prof. Yu.D. Chashechkin (co-chair), Dr. O.G. Chkhetianiy, Prof. H. Choi (Korea), Dr. E.V. Ermanyuk, Acad. RAS V.M. Fomin, Prof. P. Fraunie (Fra), Prof. Ya. Fukumoto (Jap), Corr.m. RAS A.M. Gaifullin, Corr.m. RAS D.A. Gubaidullin (deputy chair), Prof. A. Herczynski (USA), Dr. P.A. Kuibin, Prof. A.A. Kosinov, Prof. S.V. Nesterov (deputy chair), Prof. A.N. Osipov, Prof. S.F. Urmacheev (deputy chair), Prof. M.G. Shatrov, Prof. R.M. Vilfand, Dr. S.E. Yakush (co-chair), Dr. A.G. Zatsepin



Spreading of water drop on the surface of cavity in oil

Contacts

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website: <http://www.ipmnet.ru/conf/conf/>

GENERAL INFORMATION

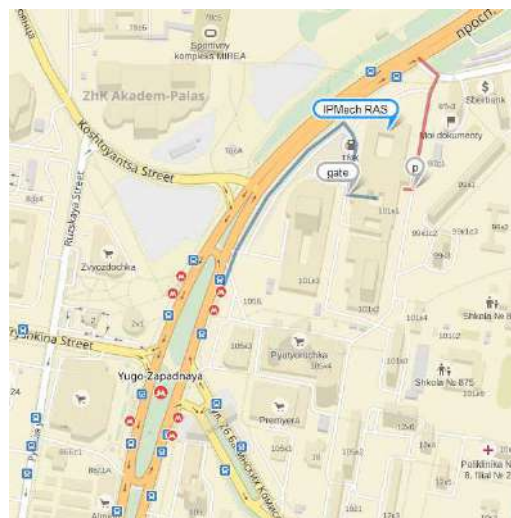
Advances in the technology of contact and remote sensing, progress in mathematics and computations have opened new opportunities to study the waves and vortices as the key components of flows playing a dominant role in the dynamics of natural and industrial systems, and forming the basis of a number of high-performance technologies.

The study of periodic flows attracts significant interest of scientists in mechanics and a number of related disciplines, including physics, chemistry, biochemistry, where transport processes and redistribution of materials are studied.

As the physical processes and the media where they occur are becoming increasingly complex, embracing the multi-phase, multi-component and stratified systems, appearance of new experimental data is driving the development of fluid dynamics theory. Theoretical achievements, in return, pose new challenging problems and requirements before the experimentalists. Solving the scientific problems paves the path towards the development of new prediction and flow control approaches in natural and industrial systems.

HOW TO GET THERE

Metro Station "Yugo-Zapadnaya". The exit from the last subway car. Then walk about 10 minutes to IPMech RAS.



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SPONSORS

Ministry of Science and Higher
Education of the Russian Federation

Russian Academy of Sciences

Russian Science Foundation

Russian Foundation for Basic Research

Organizer

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 Moscow, 2015 in Kaliningrad, 2016, 2017, 2018, 2019 in Moscow

Invited to participate in the school are 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.