



## 17th International Conference – School for Young Scientists

# WAVES AND VORTICES IN COMPLEX MEDIA

Moscow, Russia  
1–4 December 2026

Preceding one-day course:  
“Topical Problems of Modern Fluid  
and Gas Mechanics”  
30 November 2026

Venue:

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



Prospekt Vernadskogo, 101-1, Moscow Russia

## FIRST ANNOUNCEMENT

Conference–School website:

[https://ipmnet.ru/en/conf#conf2026waves\\_school](https://ipmnet.ru/en/conf#conf2026waves_school)

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## INFORMATION FOR PARTICIPANTS

Conference languages: Russian and English.  
Participants are requested to fill in the **REGISTRATION FORM** (a separate form for each presentation or lecture) and upload the **Presentation materials** of the conference talk or course lecture (up to 3 full pages, in a 16×24 cm frame, MS Word format, 12 pt, including the **TITLE OF THE PRESENTATION**, authors' names and affiliations, formatted according to the template available at the website). The program will include invited and oral presentations:

- normal talks (15 minutes),
- regular talks (10 minutes),
- short information talks (3 minutes), accompanied by an A0 poster in vertical orientation.

The Conference will be held in traditional in-person format.

**Applications** for participation in the one-day course must be submitted separately.

### Key dates

Submission of registration forms and presentation materials:

**until 15 September 2026**

Notification of inclusion in the program:

**until 30 October 2026**

### Registration fee

For regular participants: **4000 RUB**

For young scientists (under 35): **1000 RUB**

For conference attendees (without a talk): **1000 RUB**

For course attendees: **500 RUB**

Course lecturers are exempt from the registration fee.

The fee is to be paid by each participant and attendee of the Conference and the Course in cash upon registration or by bank transfer (bank details are provided upon request).

The registration fee will be used to cover the costs of publishing the materials and supporting the work of the School.

## Accommodation

The Organizing Committee does not provide assistance with accommodation.

### Scientific program (topics)

- **Systems of fundamental equations and constitutive models of complex media flows.**
- **Methods of mathematical and laboratory modeling of flows.**
- **Waves, vortices, turbulence and ligaments in liquid and gas flows.**
- **Mechanics of simple and complex fluids with phase transitions, gas–liquid systems and suspensions,**
- **Flows in electric or magnetic fields and under extreme high and low temperature conditions.**
- **Flow stability.**
- **Electrohydrodynamics**
- **Modern experimental techniques.**
- **Technological applications.**

*A special session will be dedicated to the memory of Academician RAS A.G. Kulikovskii.*



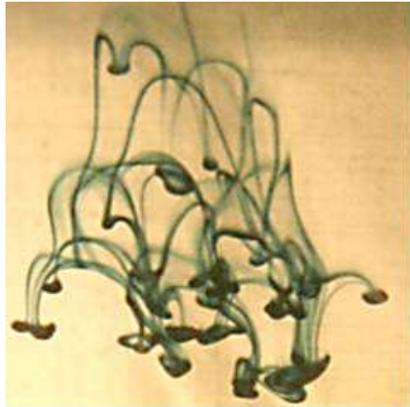
An unwinding spiral flow from a spot of paint in the center of a composite vortex

## REGISTRATION

On-site registration of participants will take place at IPMech RAS during the days of the Course and the Conference, starting from 30 November 2026.

## International Program Committee

Prof. Yu.D. Chashechkin (co-chair), corr.-m. RAS  
S.E. Yakush (co-chair), corr.-m. RAS D.A. Gubaidullin (deputy chair), prof. S.F. Urmacheev (deputy chair), E.V. Esina (sci. sec) D.Sc. O.G. Chkhietiany, prof. H.Choi (Republic of Korea), D.Sc. V.B. Bekezhanova. prof. T. Bodnar (Czech Republic), D.Sc. E.V. Ermanyuk, prof. F. Froni (French Republic), prof. Y. Fukumoto (Japan), corr.-m. RAS A.M. Gaifullin, D.Sc. M.N.Galimzyanov, corr.-m. RAS D.V. Georgievskii, prof. O.N.Goncharova, prof. A. Herchinsky (USA), prof. A.T. Ilyichev, acad. D.M. Klimov, prof. A.D. Kosinov, Ph.D. M.A. Kotov, prof. T.P. Lyubimova, D.Sc. A.I. Mizev, prof. A.N. Osiptsov, Ph.D. A.A. Ochirov, prof. R.M. Vilfand, D.Sc. A.G. Zatspein, corr.-m. RAS N.M. Zubarev



Multi-tiered vortex cascade of a falling drop

The texts of presented talks will be published in the Conference Proceedings. Selected papers will be recommended for publication in the journals "Fluid Dynamics", "Applied Mathematics and Mechanics", and "Physicochemical Kinetics in Gas Dynamics".

## Contact information

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## General information

Advances in measurement techniques, mathematics and computational methods open up new possibilities for studying waves, vortices and ligaments, which play a key role in the dynamics and structure formation of natural and industrial systems underlying a number of high-performance technologies.

The study of periodic flows is of interest for mechanics, mathematics, physics and a range of related disciplines such as chemistry, biology and pharmaceuticals, where processes of transport and redistribution of matter are involved.

The processes under consideration, as well as the media themselves, have become more complex; as a rule, they are multiphase, multicomponent and stratified, often under extreme temperature conditions. New approaches and experimental data foster the development of theoretical fluid mechanics, which in turn formulates more stringent requirements for experimental methodologies and techniques. The discussion of scientific problems will contribute to improving the description of the environment, refining forecasts and developing new methods of flow control in natural systems and technological processes.

## How to reach the venue

Prospekt Vernadskogo, 101-1, Moscow Russia  
Metro station "Yugo-Zapadnaya", Exit 7 (last car from the city center). Then about 10 minutes on foot, or by bus No. 150, 219, 688, 785k to the stop "Prospekt Vernadskogo, 97".



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## SPONSORS

Russian Academy of Sciences  
Ishlinsky Institute for Problems in Mechanics RAS

## ORGANIZERS

Ishlinsky Institute for Problems in  
Mechanics 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, 2016-2025 in Moscow

Scholars of all specializations: experimentalists, mathematicians (both analytic and numeric) are invited to participate.

Lectures will be delivered by experts in the key branches of mechanics and mathematics