

LAVRENTYEV INSTITUTE OF  
HYDRODYNAMICS SB RAS

NOVOSIBIRSK STATE UNIVERSITY

SIBERIAN BRANCH OF  
THE RUSSIAN ACADEMY OF SCIENCES



**ALL-RUSSIAN CONFERENCE  
AND SCHOOL FOR YOUNG SCIENTISTS  
DEVOTED TO 100<sup>TH</sup> ANNIVERSARY OF  
ACADEMICIAN L.V. OVSIANNIKOV**

"MATHEMATICAL PROBLEMS OF  
CONTINUUM MECHANICS"

**April 22-26, 2019**

Novosibirsk, Russia

### FIRST ANNOUNCEMENT

In 2019 marks the 100th anniversary of the birth of Lev Vasilievich Ovsiannikov (22.04.1919 - 23.05.2014), an outstanding Russian scientist in the field of mechanics and mathematics. Results of L.V. Ovsiannikov in the gas dynamics, the theory of fluid motion with free boundaries, in the field of mathematical justification of the models of continuum mechanics became classical and served as the beginning of new scientific directions. The methods of group analysis of differential equations developed by him are widely used in various fields of mathematics, mechanics, and theoretical physics. Created by L.V. Ovsiannikov's scientific school is widely known in world science.

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The scientific topics of the conference include discussion of actual problems of applied mathematics, mechanics and methods of mathematical modeling, as well as their applications for describing and forecasting natural and technical processes.

Oral talks are planned for 30 and 20 minutes, as well as short oral presentations followed by discussion in the poster session. Within the school of young scientists, short courses of lectures on topical problems of continuum mechanics will be given.

#### SCIENTIFIC TOPICS:

- Group-theoretical and analytical methods in continuum mechanics;
- Mathematical theory of nonlinear wave processes in liquids and gases;
- New models of multiphase and stratified liquids, mixtures and media with complicated rheological properties;
- Nonlinear problems of solid body.

#### ABSTRACT SUBMISSION, ONLINE REGISTRATION

Everyone is welcome to participate in the conference. Selection of reports will be carried out by the Program Committee on the basis of abstracts. The conference program will include original reports reflecting the current state of science in the above mentioned areas. Those wishing to present a scientific report at the Conference, should e-mail the abstract of the talk and complete the electronic registration on the conference website **before December 10, 2018**.

Abstracts of papers not exceeding one page in length (width of text - 160 mm, length - 240 mm, font size 12 pt) should be sent by e-mail to the Conference organizing committee. A file with abstracts template is available on the conference website <http://conf.nsc.ru/lvo100>. In addition to the source file, you should provide the compiled version in PostScript or PDF format, as well as image files. The notification of acceptance of the talk and the second announcement will be sent by **January 25<sup>th</sup>, 2019**.

#### PUBLICATION OF FULL PAPERS

It is planned to publish Conference proceedings with full length papers in the Journal of Physics: Conference series, indexed in the Scopus and Web of Science databases. Publication is possible only after personal participation in the con-

ference of at least one of the co-authors, and positive review. It is allowed to participate as a co-author in no more than two papers. Papers in English are accepted before **March 1, 2019**. The rules for the preparation of papers are available on the conference website.

#### KEY DATES

<b>December 10, 2018</b>	Abstract submission and online registration
<b>January 25, 2019</b>	Notification of abstract acceptance
<b>March 1, 2019</b>	Submission of full length papers for publication in the Conference proceedings (optional)
<b>April 22-26, 2019</b>	Conference dates

#### REGISTRATION FEE

The registration fee is 100 EUR. An additional fee for the full paper publication in the Conference proceedings is set at 70 EUR. The dates and methods of the registration fee payment will be announced later.

#### CONFERENCE VENUE

The work of the conference will take place in Academgorodok (Novosibirsk), in the Center for the collective use of the Academpark (Technopark), located at: Novosibirsk, ul. Nikolaev, 12.

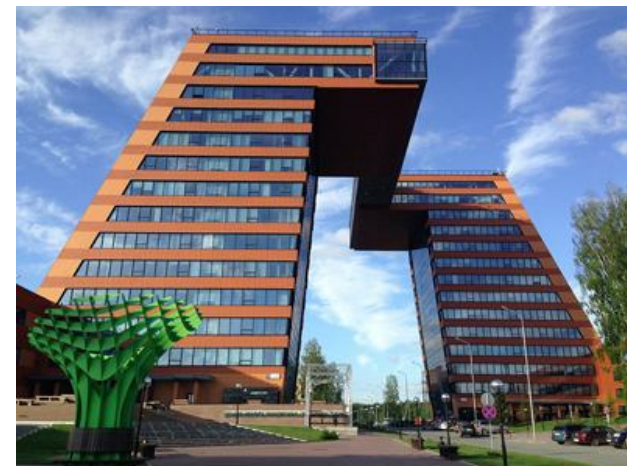
#### VISA

If you need a visa to enter the Russian Federation, please contact the organizers immediately after you submit an abstract and register online.

#### CONTACTS

Please address all correspondence to

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