



Sixth International Scientific School
for Young Scientists

Waves and vortices in complex media

Kaliningrad
June 21 – 23, 2015

School venue is
Kaliningrad State Technical University



Kaliningrad, 236000, Sovetsky avenue, 1

INVITATION TO PARTICIPATE

The program of the school includes plenary and oral 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 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 MAY 1st, 2015

Author notification on acceptance
before MAY 15th, 2015

REGISTRATION FEE

Regular participant fee is 2000 rub.

The registration fee for young scientists (under 35 years) is 500 rubles.

The fee is to be paid before June 15, 2015 by bank transfer order (details available on request) or in cash.

ACCOMMODATION

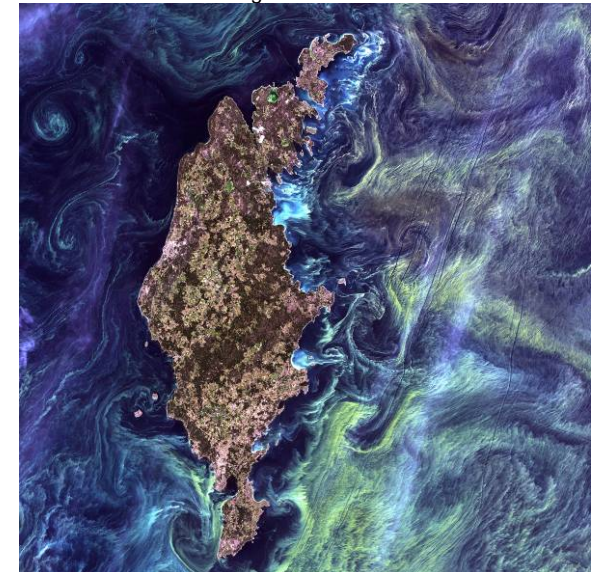
Participants accommodate in hotels of the Kaliningrad on their own booking (<http://www.booking.com/>)

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 programme. Number of papers presented by one author is not limited.

Satellite image of the Gotland island



http://www.nasa.gov/images/content/670107main_van_gogh_from_space.jpg

REGISTRATION

Registration will take place in KSTU on June 20th, 2015

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SPONSORS

Federal Agency of Scientific
Organizations

Russian Academy of Sciences

Russian Foundation for Basic Research

ORGANIZERS

FGBOU VPO Kaliningrad state technical
University,

FSBIS A. Ishlinsky Institute for problems in me-
chanics RAS,

FSBIS V.A. Steklov Mathematical Institute

This session continues the series of schools on
actual problems of theoretical and experimental
fluid mechanics, taken place in IPMech RAS
(2010, 2011, 2012, 2013, 2014 , Moscow).

One of the School goals is to discuss the new-
est results obtained in the program of funda-
mental scientific research DEMbMCP RAS
IV.4.12 "Dynamics of formation and the inter-
action between waves and vortices in conti-
nuum".

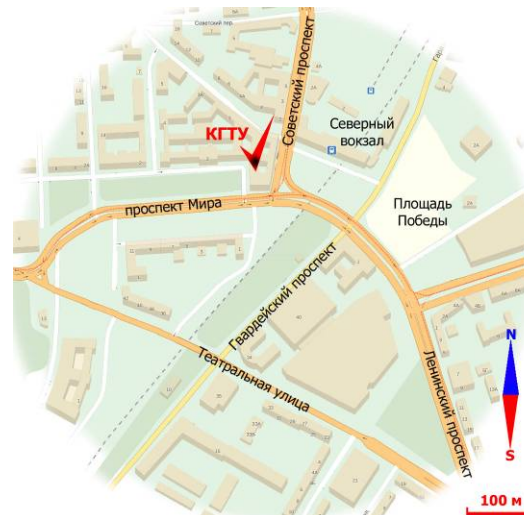
GENERAL INFORMATION

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 disci-
plines, such as chemistry, biology, pharmacy, which
involves the transport processes and the redistribu-
tion of the matter.

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

HOW TO GET



INTERNATIONAL PROGRAM COMMITTEE

Ac. A.G. Kulikovskiy (chair)
V.G. Baydulov (scientific secretary)
Prof. Yu.D. Chashechkin (deputy chair)
Corr.m. RAS D.A. Gubaidulin (deputy chair)
Ac. V.M. Fomin
Corr.m. NAS Ukraine V.I. Nikishov
Prof. P. Fraunie (Fra)
Prof. A.F. Pshenichnikov
Corr.m. RAS V.V. Pukhnachev
Prof. V.M. Somsikov (Kaz)
Prof. C.F. Urmacheev
Prof. Yu.G. Yanovskiy

Complex structure of Lovejoy comet ion trace



<http://www.astronet.ru/db/msg/1330916>

CONTACTS

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