

## Conference Venue

International conference «Shell and membrane theories in mechanics and biology» will be held at the main building of the Belarusian State University. The main building of the BSU is in the very center Minsk, it is close to dormitories, hotels and historical monuments. Railway, bus and subway stations are not far from the main building of the BSU.

## Accommodation

Accommodation should be either arranged directly with appropriate of the hotels situated in the center of Minsk or with the organizers of the BSU dormitories. More detailed information may be found on the website of the Conference [www.nanoshells.by](http://www.nanoshells.by)

## Sponsors and Supporting Organizations

Ministry of Education of Republic of Belarus  
Belarusian Republican Foundation  
for Fundamental Research  
The Joint Institute of Mechanical Engineering  
of the National Academy of Sciences of Belarus  
Saratov State University named after N.G. Chernyshevsky  
Corporate chain of children clothing and footwear  
«Orange camel»  
JSC «Altimed»  
JSC «STRUM»

## Registration and Conference Fee

Registration starts on December 1, 2012. The registration fees are structured as follows:

	Registration before June 31, 2013	Registration after June 31, 2013
Foreign participants	140 €	180 €
Participants from CIS	40 €	60 €
Young scientists	30 €	40 €
Accompanying person of foreign participants	80 €	80 €
Accompanying person of participants from CIS	30 €	30 €

Conference fee covers the usual conference expenses (participation in sections, materials, coffee breaks, Minsk tour). Methods of payment can be found on the website of the Conference.

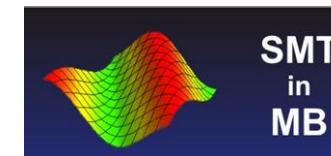
## Social Program

The excursion around Minsk city, which includes visit to famous historical places and trips outside the city are planned. Detailed information about a social program and additional excursions may be found on the Conference site.

## Secretariat

Scientific secretaries of the Conference  
S. M. Bosiakov, M. G. Botogova  
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Address of the secretariat:  
Belarus, 220030, Minsk, Nezavisimosti avenue, 4, BSU,  
Faculty of Mechanics and Mathematics

## First announcement



# SHELL AND MEMBRANE THEORIES IN MECHANICS AND BIOLOGY: From Macro- to Nanoscale Structures

International Scientific Conference

September 16– 20, 2013

Belarusian State University  
Minsk, Belarus

<http://www.nanoshells.by>



## General

The main purpose of this meeting is to bring together mechanical engineers, mathematicians, physicists and other specialists carrying out research in such areas as Theories of Shells and Membranes in order to discuss important results and new ideas, support and promote interdisciplinary research activity in these broad but strongly connected fields. New trends in application to Mechanical, Civil and Aero-Space Engineering, as well as in new branches like Medicine and Biology demand improvements in the theoretical foundations of these theories. The forum is addressed to the broad spectrum of scientists from different fields of Mechanics, Biomechanics, Mathematics, Physics, Medicine, Biology, etc. Although all papers related to shell-like structures, membranes and films or to adjacent fields in Mechanics, Physics, etc. are welcome, the focus will be made on presentations which are related to new theories, approaches, methods and applications describing non-classical effects (e.g., the small-size effects at the micro- and nanoscale level, etc). Applied studies in Industry, Medicine, Biology and Nanotechnology are highly welcome. Educational aspects in biomechanics and nanomechanics will be also conference topics.

## Conference Topics

- **Mathematical problems of thin-walled structures**
- **Coupled fields in theory of plates and shells**
- **Thin-walled elements in modeling of biomechanical systems**
- **Non-classical theory of shells, plates and rods in the modeling of micro and nanostructures and objects**
- **Mechanics of membranes, thin films and their application in biophysics and medicine**
- **Industrial applications of beams, plates and rod theories**
- **Composite thin-walled constructions**
- **Numerical and experimental methods of thin-walled structure analysis**
- **Mathematical and numerical modeling of biomechanical systems**
- **Educational aspects in bio-and nanomechanics**

## Organizing Committee

S. V. Ablameyko (National Academy of Sciences of Belarus, Rector of the Belarusian State University) – Co-chairman  
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L. Yu. Kossovich (Rector of the Saratov State University, Russia) – Co-chairman  
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G. I. Mikhasev (Head of the department of bio- and nanomechanics of the Belarusian State University) – Vice-chairman, coordinator  
S. M. Bosiakov (scientific secretary, Minsk, Belarus)

## Members of the Organizing Committee (Belarus):

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## Abstract Submission

Volume of a paper must not exceed 2 pages. An abstract template is available on the Conference website.

All submitted papers will be reviewed by members of International Advisory Board. The book of abstracts will be published before opening the Conference. After the conference the extended versions of selected papers written in English will be published in the special book volume in the **Springer series "Advanced Structures Materials"**. Other papers written in English or Russian can be published in the special issues of the two Belarusian scientific journals, "Mechanics of Machines, Mechanisms and Materials", "Vestnik BGU (Bulletin of Belarusian State University)", and in the special issue of the scientific journal of Saratov State University "Izvesti'a Saratovskogo Universiteta. Seri'a "Matematika, Mekhanika, Informatika" after the standard pre-review procedure

## Deadlines:

Abstract submission	March 31, 2013
Notification of acceptance	May 1, 2013

It is strongly recommended to follow the instructions which you can find in the abstract template on the Conference website.

## Conference Format

The conference will be organized within five days. During this time 10 sections will work in accordance with the main topics of the conference. Keynote lectures on the actual directions of shell and membrane theories, bio- and nanomechanics will be delivered by the invited scientists.

The exhibition of innovations of the National Academy of Science, the Belarusian State University and the Saratov State University is planned to be organized during the Conference.

Scientists willing to organize a section in any specific areas of their expertise are cordially invited to submit their proposals to either Prof. H. Altenbach (holm.altenbach@ovgu.de) or Prof. G. Mikhasev (mikhasev@bsu.by).