

# FIRST INFORMATION LETTER

*We invite you to take part in*

*the International Scientific Conference "Actual Problems of Mechanics"  
(to the 145th anniversary of the birth of S.P. Timoshenko),  
which will be held under the auspices  
of the S.P. Timoshenko Institute of Mechanics  
of the National Academy of Sciences of Ukraine*

## **Co-organizers of the conference:**

M.S. Polyakov Institute of Geotechnical Mechanics of the NAS of Ukraine  
Institute of Technical Mechanics of the NAS of Ukraine and State Space Agency of Ukraine  
Institute of Hydromechanics of the NAS of Ukraine  
G.S. Pysarenko Institute of Strength Problems of the NAS of Ukraine  
State Company " M.K. Yangel Design Bureau "Pivdenne"  
Ya.S. Pidstryhach Institute of Applied Problems of Mechanics and Mathematics  
of the NAS of Ukraine  
V.M. Glushkov Institute of Cybernetics of the NAS of Ukraine  
Taras Shevchenko Kyiv National University

National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

National Transport University of Ukraine

Oles Honchar Dnipro National University

**Venue:** S.P. Timoshenko Institute of Mechanics of the NAS of Ukraine,  
P. Nesterov str., 3, Kyiv, 03057, Ukraine

**Dates:** November 14-16, 2023

**Participation in the conference:** either in-person or virtual

**The working languages of the conference:** Ukrainian and English.

The lectures that correspond to the topics of the journal "Prykladna mehanika" ("International Applied Mechanics" in English translation) are accepted for consideration.

*It is planned to discuss the lectures in the following sections:*

- *Mechanics of composite materials and structural elements, including the allowance for the effect of initial stresses*
- *Mechanics of shell systems and structural elements, in particular, with holes, cutouts, stiffeners*
- *Mechanics of long-term deformation and fracture mechanics*
- *Mechanics of interacting physical and mechanical fields in the heterogeneous media and structural elements*
- *Stability and motion control of mechanical systems*
- *Interaction of elastic systems with liquid and gas flows*
- *Mechanics of mechanical engineering structures and geotechnical mechanics*
- *Mechanics of rocket and space systems and technical mechanics*
- *Experimental and computational methods of studying the strength of materials and structures*
- *Numerical methods and computer modeling in mechanics*

**Annotations of lectures** (up to two full pages of A4 format) in English or Ukrainian, designed in a **Word text editor** according to the rules adopted in the journal "Prykladna mekhanika" (regarding the font, its size, mathematical formulas, the format of presentation of figures, tables, references) must be sent electronically to the organizing committee of the conference **by September 14, 2023, inclusive**. Annotations should contain the initials and surnames of the authors with their contact details (full name and address of the organization where the work was performed, indicating the city, country, and e-mail address) and an indication of the author with whom the Organizing Committee will be in correspondence.

*The annotations should be sent to one of the e-mail addresses:  
[inst\\_mech@inmech.kiev.ua](mailto:inst_mech@inmech.kiev.ua), [caf-vmi@ukr.net](mailto:caf-vmi@ukr.net), [prikl@inmech.kiev.ua](mailto:prikl@inmech.kiev.ua).*

Road map:

until **September 14, 2023**, inclusive - acceptance of annotations;

until **September 20, 2023**, inclusive - notification to the authors of the sent annotations about the inclusion/rejection of the lecture in the conference program;

until **October 31, 2023**, inclusive – sending the authors of the accepted lectures full texts of up to 12 pages in A4 format, designed according to the rules for preparing the articles in the journal "Prykladna mekhanika";

**November 3, 2023 - the second information letter:** the conference program with the work schedule of the sections and the time of presentation of lectures at the sections (including poster lectures);

**November 7, 2023** - sending messages to the authors who plan to participate in the online mode, with reference to the parameters of online connection to the conference;

**November 14-16, 2023** - holding a conference.

If necessary, there may also be other intermediate information letters.

Based on the results of the conference, it is planned to publish the annotations of the conference (annotations of the lectures) plus publish the invited and best reports in the journal "Prykladna mekhanika" (after additional review of the lectures as the journal articles). The invitations for publication in the journal will be sent to the authors of the selected lectures immediately after the conference.

Considering security issues during the period of quarantine and the military state introduced in Ukraine, authors from outside Ukraine, as well as from cities of Ukraine, except Kyiv, are recommended to participate in the conference online.

## ORGANIZING COMMITTEE (Ukraine)

### *Co-chairs:*

Bogdanov V.L., Nazarenko V.M.

*Scientific secretary of the organizing committee*  
Steblyanko P.O.

### *Members of the Organizing Committee:*

Guz O.M., Galishyn O.Z., Golub V.P., Grigorenko O.Ya., Kaminsky A.O., Karnaughov V.G., Kirilyuk V.S., Kubenko V.D., Lugovyi P.Z., Martynyuk A.A., Rushchitsky J.J., Chernyshenko I.S.

## PROGRAM COMMITTEE

### *Co-chairs:*

Bogdanov V.L., Nazarenko V.M. (Ukraine)

### *Members of Program Committee:*

Akbarov S. (Turkey; Azerbaijan), Altenbach H. (Germany), Amabili M. (Canada), Bobyr M.I. (Ukraine), Bulat A.F. (Ukraine), Chate A. (Latvia), Chernyshenko I.S. (Ukraine), Chirkov O.Yu. (Ukraine). Galishyn O.Z. (Ukraine), Gdoutos E. (Greece), Golub V.P. (Ukraine), Grigorenko O.Ya. (Ukraine), Guz I. (Great Britain), Guz O.M. (Ukraine), Dzyuba A.P. (Ukraine), Kaminsky A.O. (Ukraine), Karnaughov V.G. (Ukraine), Kashtalyan M. (Great Britain), Khimich O.M. (Ukraine), Kirilyuk V.S. (Ukraine), Kruckovsky O.P. (Ukraine), Kubenko V.D. (Ukraine), Kushnir R.M. (Ukraine), Lapusta Yu. (France), Loboda V.V. (Ukraine), Loza I.A. (Ukraine), Lugovyi P.Z. (Ukraine), Mang G. (Austria), Martynyuk A.A. (Ukraine), Marchuk O.V. (Ukraine), Müller W. (Germany), Pylypenko O.V. (Ukraine), Poshivalov V.P. (Ukraine), Rushchitsky J.J. (Ukraine), Sirenko V.M. (Ukraine), Steblyanko P.O. (Ukraine), Voropaev G.O. (Ukraine), Zhuk Ya.O. (Ukraine), Zozulya V. (Italy)

## CONTACTS:

### **Postal address**

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**Kirilyuk V.S.** (journal "Prykladna mekhanika", [prikl@inmech.kiev.ua](mailto:prikl@inmech.kiev.ua))