

INTERNATIONAL CONFERENCE  
“*IN-SERVICE DAMAGE OF MATERIALS, ITS  
DIAGNOSTICS AND PREDICTION*”

During operation, materials of structural elements are subjected to damages whose nature is dependent on the mode of loading and operating conditions (high and low temperatures, cyclic loading, corrosive medium, irradiation, etc.).

Diagnostics of material damages and their description are of importance for the development of the methods for improving the reliability, prediction of the residual life of structural elements and optimization of the physico-mechanical properties of materials.

Investigations of the damage accumulation in metals involve both the development of the fundamentals for describing this phenomenon and methods for assessing the strength and life of structural elements taking into account the whole set of the design and operational factors.

The Conference is one of the forums dealing with consideration of the results of investigations of this problem.

**OBJECTIVES**

The International Conference “In-Service Damage of Materials, its Diagnostics and Prediction” will allow analyzing and generalizing the results of new theoretical and experimental studies into the processes of damage accumulation, crack initiation and propagation, diagnostics of damages with a view to ensuring the strength and reliability of structural elements.

**TRAVEL INFORMATION**

Ternopil can be reached by rail or bus. The nearest International airport is 132 km away in Lviv. The participants traveling via Lviv and Kyiv will be provided with the necessary information and assistance in ticket reservation. Detailed information on the regular transport service will be available on the Conference website and in the Second Announcement.

**CONTACTS**

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<http://dmdp.tntu.edu.ua>

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<b>Matvienko Yu.</b>	(Russia)	<b>Bhaskar A.</b>	(Great Britain)

**MAIN TOPICS**

1. Localized and nonlocalized damage of materials.
2. Damage diagnostics.
3. Methods for describing and predicting material damaging.
4. Residual life assessment for structural elements.

**LANGUAGES**

The official languages for all presentations are  
*English and Ukrainian*

*Organizing Committee of the International Conference  
“IN-SERVICE DAMAGE OF MATERIALS, ITS DIAGNOSTICS AND PREDICTION”  
(DMDP)*

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**PAYMENT INSTRUCTION  
THE BANK ESSENTIAL ELEMENTS:**

**for USD payments:**

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**Account Name:** For participation in the Conference "DMDP"  
(write your name )

Please mail a copy of the payment order with your name on it, which confirms your payment, to the Organizing Committee.

The Registration fee can also be paid during registration (receipts will be available). The Registration fee will cover the organization and transport costs, publication of the proceedings, and Conference dinner.

Materials of the reports must be submitted before 10.08.2019 following the second information letter. Reports, submitted by the participants, will be published in a separate digest on e-mail before the start of the conference. Extended versions of the reports will be recommended by the Organizing Committee for publication in scientific journals:

Scientific Journal of the TNTU,  
Strength of Materials,  
Materials Science,  
Transport (Francis & Taylor),  
Acta Mechanica et Automatica  
(<http://www.degruyter.com/view/j/ama>)

**GUIDELINES FOR AUTHORS**

**General guidelines.** One copy of a camera-ready manuscript prepared using Win Word (not below version 6.00) **Times New Roman 12** point typed using a laser/jet printer on white A4 (210×297) paper with margins of top and bottom 30 mm, and left and right 25 mm along with its electronic version on e-mail should be send the Organizing Committee. The pages should be numbered in pencil in the right-hand top corner on the reverse side of each page. The length of the manuscript for publication should not exceed **4 pages** (including figures, tables, and references).

**Layout.** The title must be in **BOLD FACE CAPITAL LETTERS 14 pt** centered, typed flush to the top margin. One and a half lines of space below follow author's surname and initials in **BOLD LAWER CASE LETTERS 14 pt** and then institution, city, country 12 pt, all centered. Leave one and a half lines of space and type the text of the abstract in one paragraph up to 15 lines single-spaced.

**Illustrations, tables and equations.** Illustrations and tables should be prepared in \*.jpeg or \*.tiff format (resolution 300 dpi). They must be inserted into the text and numbered in sequence using Arabic numerals. Tables should be typed within the type area. The figure captions (beneath each figure) and table captions (above each table) should consist of a number and a title (e.g., Fig. 3. Scheme of the device). Insert single space between figures/tables and the text. Each figure should also be supplied as a separate file, with the file name corresponding to the figure number in the text. Equations should be typed in the Microsoft Equation Editor.

**References** to literature should be arranged in accordance with the generally accepted rules.

**Papers should be submitted before 10.08.2019.**

**The authors are reminded** that camera-ready manuscripts should be prepared following exactly the above Guidelines. Please proof read the text before submitting. Manuscripts prepared with the violation of the Guidelines will not be published.

Papers should be submitted before 10.08.2019 after receiving the Second Announcement in which guidelines for authors will be presented. Manuscripts will be published in the Proceedings of the Conference and will be available before the beginning of the Conference.

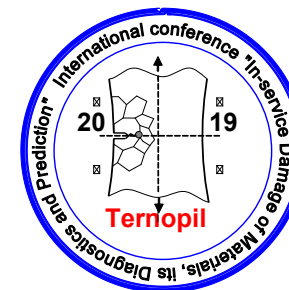
**THE REGISTRATION FEE WILL BE:**

- for participants of the Conference: \$100 USA
- for post-graduate students and students: \$50 USA.

Information concerning the accommodation of participants an the cultural program is available at:  
<http://dmdp.tntu.edu.ua>

**SECOND ANNOUNCEMENT**

**INTERNATIONAL CONFERENCE  
"IN-SERVICE DAMAGE OF MATERIALS, ITS  
DIAGNOSTICS AND PREDICTION"  
"DMDP-2019"**



September 24-27, 2019

Ternopil, Ukraine

**ORGANIZED BY**

**G.S. PISARENKO INSTITUTE FOR PROBLEMS OF STRENGTH  
THE NATIONAL ACADEMY OF SCIENCES OF UKRAINE**

**MINISTRY EDUCATION AND SCIENCE OF UKRAINE  
TERNOPIL NATIONAL IVAN PULUJ TECHNICAL UNIVERSITY**

**WEST SCIENTIFIC CENTER OF THE NAS AND MES OF UKRAINE  
SCIENTIFIC COUNCIL "MECHANICS OF A DEFORMABLE SOLID"  
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