

## 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>

#### **Co-Chairmen of the Program Committee**

Yasniy P. V. (Ukraine)

Nazarchuk Z.T. (Ukraine)

Kharchenko V.V. (Ukraine)

#### **Chairman of the Organizing Committee**

Maruschak P.O. (Ukraine)

#### **Scientific secretary**

Okipnyi I.B. (Ukraine)

#### **Members of the Program Committee**

<b>Azari Z.</b>	(France)	<b>Matvienko Yu.</b>	(Russia)
<b>Andreikiv, O.</b>	(Ukraine)	<b>Nykyforchyn H.</b>	(Ukraine)
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<b>Hutsaylyuk V.</b>	(Poland)	<b>Prentkovskis O..</b>	(Lithuania)
<b>Dietzel W.</b>	(Germany)	<b>Skalskyi V.</b>	(Ukraine)
<b>Zhuravkov M.</b>	(Belarus)	<b>Sedmak A.</b>	(Serbia)
<b>Carpinteri A.</b>	(Italy)	<b>Seweryn A.</b>	(Poland)
<b>Kushnir R.</b>	(Ukraine)	<b>Sosnovskiy L.</b>	(Belarus)
<b>Kotrechko S.</b>	(Ukraine)	<b>Sulym H.</b>	(Ukraine)
<b>Kryzhanivsky Ye.</b>	(Ukraine)	<b>Snizek L.</b>	(Poland)
<b>Lapusta Yu.</b>	(France)	<b>Sunder R.</b>	(India)
<b>Toth L.</b>	(Hungary)	<b>Toribio J.</b>	(Spain)
<b>Lobanov L.</b>	(Ukraine)	<b>Troitskyi V.</b>	(Ukraine)
<b>Menou A.</b>	(Morocco)	<b>Troshchenko V.</b>	(Ukraine)
<b>Okrajni J.</b>	(Poland)	<b>Fomichev P.</b>	(Ukraine)
		<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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<http://dmdp.tntu.edu.ua>

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

**Application form**

First name \_\_\_\_\_

Surname \_\_\_\_\_

Organization \_\_\_\_\_

Position \_\_\_\_\_

Degree \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail: \_\_\_\_\_

The title of the paper and  
 authors: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Please indicate the relevant main topic:

1

2

3

4

**Deadline** for the Application forms  
**01.03.2019**

**SCHEDULE AND DEADLINES:**

First announcement	01.12.18
Preliminary registration	01.03.19
Second announcement and call for papers	01.04.19
Submission of final manuscripts	01.07.19
Payment of the Conference fee	01.07.19
Conference Program	15.08.19
Participation in the Conference	24-27.09.19

Application forms should be sent to the address of the Organizing Committee (by mail, e-mail or fax) or should be filled in on-line.

Papers should be submitted before 1.07.2015 after receiving the Second Announcement in which guidelines for authors will be presented. Articles submitted by the participants will be published in special issue of the Journal of the Ternopil National Technical University and Strength of Materials.

**THE REGISTRATION FEE WILL BE:**

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

The form of payment, details of hotel accommodation, and social program will be given in the Second Announcement.

On-line information about the Conference is placed at the address: <http://dmdp.tntu.edu.ua>

01.02.15

01.03.13

01.04.13

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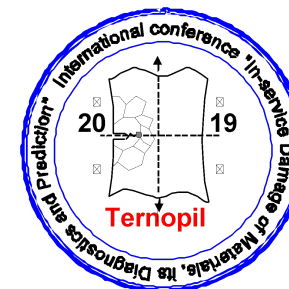
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17-20.09.13

**FIRST 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 PUL'UJ TECHNICAL UNIVERSITY

WEST SCIENTIFIC CENTER OF THE NAS AND MES OF UKRAINE  
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 NAS OF UKRAINE

SCIENTIFIC COUNCIL “PHYSICOCHEMICAL MECHANICS OF  
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TO “SCIENTIFIC – TECHNICAL SOCIETY”