

*Virtual International Conference*  
*«In-service Damage of Materials, its Diagnostics and Prediction»*

EUROPEAN STRUCTURAL INTEGRITY SOCIETY

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
TERNOPIL NATIONAL IVAN PULUIJ TECHNICAL UNIVERSITY

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

KARPENKO PHYSICO-MECHANICAL INSTITUTE  
OF THE NATIONAL ACADEMY OF SCIENCES OF UKRAINE

UKRAINIAN SOCIETY ON FRACTURE MECHANICS

**VIRTUAL INTERNATIONAL CONFERENCE**



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

**"VDMDP1"**

**October 11-13, 2021  
Ternopil, Ukraine**

October 11-13, 2021, Ternopil, Ukraine

**International program committee**

Chairmen of the Program Committee	<b>Yasniy P.V.</b>	/Ukraine/
Co-Chairmen of the Program Committee	<b>Kharchenko V.V.</b>	/Ukraine/
Co-Chairmen of the Program Committee	<b>Nazarchuk Z.T.</b>	/Ukraine/
Chairmen of the Organizing Committee	<b>Iasnii V.P.</b>	/Ukraine/
Scientific secretary	<b>Okipnyi I.B.</b>	/Ukraine/

**Members of the program committee**

<b>Olexandr</b>	<b>Adreikiv</b>	Ukraine	<b>Mykola</b>	<b>Bobyr</b>	Ukraine
<b>Željko</b>	<b>Božić</b>	Croatia	<b>Andrea</b>	<b>Carpinteri</b>	Italy
<b>Nenad</b>	<b>Gubeljak</b>	Slovenia	<b>Volodymyr</b>	<b>Hutsaylyuk</b>	Poland
<b>Francesco</b>	<b>Iacoviello</b>	Italy	<b>Volodymyr</b>	<b>Iasnii</b>	Ukraine
<b>Serhiy</b>	<b>Kotrechko</b>	Ukraine	<b>Roman</b>	<b>Kushnir</b>	Ukraine
<b>Tadeusz</b>	<b>Lagoda</b>	Poland	<b>Yuri</b>	<b>Lapusta</b>	France
<b>Leonid</b>	<b>Lobanov</b>	Ukraine	<b>Liviu</b>	<b>Marsavina</b>	Romania
<b>Hryhoriiy</b>	<b>Nykyforhyn</b>	Ukraine	<b>Volodymyr</b>	<b>Panasyuk</b>	Ukraine
<b>Guy</b>	<b>Pluvinage</b>	France	<b>Aleksandar</b>	<b>Sedmak</b>	Serbia
<b>Valentyn</b>	<b>Skalskyi</b>	Ukraine	<b>Volodymyr</b>	<b>Stryzhalo</b>	Ukraine
<b>Heorhiy</b>	<b>Sulym</b>	Ukraine	<b>Ramasubbu</b>	<b>Sunder</b>	India
<b>Jesus</b>	<b>Toribio</b>	Spain	<b>László</b>	<b>Toth</b>	Hungary
<b>Valery</b>	<b>Troshchenko</b>	Ukraine	<b>Oleg</b>	<b>Yasniy</b>	Ukraine
<b>Anatoly</b>	<b>Zinkovskii</b>	Ukraine	<b>Olha</b>	<b>Zvirko</b>	Ukraine

*Virtual International Conference*  
 «*In-service Damage of Materials, its Diagnostics and Prediction*»



**CONFERENCE SCHEDULE**

Date	Time	Formal events	Room (link)
<i>11 / 10 / 2021, Monday</i> <i>(by Kyiv, GMT+3)</i>	14.00-14.20	<i>Opening of the Conference</i>	<a href="#"><u>Hall</u></a>
	14.20-19.00	<i>Session 1</i>	<a href="#"><u>Room A</u></a>
	14.20-19.00	<i>Session 2</i>	<a href="#"><u>Room B</u></a>
	14.20-19.00	<i>Session 3</i>	<a href="#"><u>Room C</u></a>
	14.20-19.00	<i>Session 4</i>	<a href="#"><u>Room D</u></a>
<i>12 / 10 / 2021, Tuesday</i> <i>(by Kyiv, GMT+3)</i>	15.00-16.45	<i>TC 10 Meeting</i>	<a href="#"><u>Room A</u></a>
	17.00-18.45	<i>TC 13 Meeting</i>	<a href="#"><u>Room B</u></a>
<i>13 / 10 / 2021, Wednesday</i> <i>(by Kyiv, GMT+3)</i>	14.00-17.20	<i>Mini-symposia                      Hydrogen Degradation</i>	<a href="#"><u>Room A</u></a>
	14.00-18.00	<i>Mini-symposia Technogenic and Environmental Risks in the Energy Sector: Estimation, Forecasting, Prevention</i>	<a href="#"><u>Room B</u></a>
	18.00	<i>Closing of the Conference</i>	<a href="#"><u>Hall</u></a>

*VDMDP1 is held online using the Google Meet platform.*

*Participants will be able to join rooms 15 minutes before the scheduled start time*




October 11-13, 2021, Ternopil, Ukraine



**SESSION 1**

**LOCALIZED AND NONLOCALIZED DAMAGE OF MATERIALS  
DAMAGE PREDICTION  
METALLOGRAPHY AND FRACTOGRAPHY**

11 / 10 / 2021, Monday

- Session 1-	Co-chairmen: <i>Student O., Lesiuk G.</i>	
14.20	<i>Lesiuk G., Dziuba Sz., Stosiak M., Urbanowicz K., Jose A.F.O. Correia, Abilio M.P. De Jesus</i> <b>MAINTENANCE AND STRUCTURAL DEGRADATION OF THE LONG TERM OPERATED BRIDGE STEEL</b>	
14.40	<i>Pavlenko A., Cheilytko A., Ilin S., Belokon Yu.</i> <b>DETERMINATION OF POROUS CONSTRUCTIONS HEAT TRANSFER COEFFICIENT</b>	
15.00	<i>Khlopyk O., Korniy S., Zin I.</i> <b>ALUMINUM ALLOY CORROSION INHIBITION BY GRUDE GLYCEROL</b>	
15.20	<i>Kovalchuk Ya., Bodrova L., Kramar H., Shynhera N., Shved Ya.</i> <b>MATERIAL CONSUMPTION OPTIMIZATION OF A WELDED RAFTER TRUSS MADE OF ANGLE PROFILES</b>	
15.40	<i>Dzhala R., Verbenets B., Dzhala V., Senyuk O., Lozovan V.</i> <b>CONTACTLESS TESTING OF INSULATION DAMAGES DISTRIBUTION OF THE UNDERGROUND PIPELINES</b>	
16.00	<i>Lyashenko I.</i> <b>CONTACT PHENOMENA BETWEEN SOFT ELASTOMERS AND HARD INDENTERS WITH STRONG ADHESION INTERACTION IN THE INTERFACE</b>	
16.20	 Coffee Break	
16.40	<i>Pisarenko G., Voynalovich O., Maylo A., Pisarenko S.</i> <b>DEFORMATION DEFECTS OF THE STRUCTURAL MATERIAL AS A FACTOR OF LIFE AGING</b>	


17.00	Andreykiv O., Babii A., Dolinska I., Yadzhak N., Babii M. <b>RESIDUAL LIFETIME PREDICTION OF FIELD SPRAYER BOOMS UNDER THE ACTION OF MANEUVER LOADING AND CORROSIVE ENVIRONMENTS</b>
17.20	Krechkovska H., Sylovanyuk V., Student O., Chornenkyi A. <b>PREDICTION OF THE STATE OF HEAT-RESISTANT STEEL FOR A STEAM PIPELINE TAKING INTO ACCOUNT CHANGES IN ITS STRENGTH DUE TO OPERATIONAL DAMAGES</b>
17.40	Bodrova L., Kramar H., Koval I., Marynenko S., Kovalchuk Ya., Prysyzhnyuk P., Shlapak L. <b>INFLUENCE OF NANO-NI ON THE MICROSTRUCTURE OF POLYCARBIDE-BASED ALLOYS</b>
18.00	Toribio J. <b>ON THE NOTCH TIP STRAIN RATE</b>
18.20	Dzioba I., Lipiec S. <b>ANALYSIS OF THE FRACTURE PROCESS IN FERRITIC STEELS BASED ON A UNIAXIAL TENSILE TEST</b>
18.40	Toribio J. <b>ON THE CRACK TIP STRAIN RATE</b>
19.00	Kharchenko V.V., Katok O.A., Kravchuk R.V., Sereda A.V., Shvets V.P. <b>ANALYSIS OF THE SITUATION AND FEATURES OF METHODS FOR DETERMINATION OF STRENGTH CHARACTERISTICS OF NPP MAIN EQUIPMENT METAL FROM THE RESULTS OF HARDNESS AND INDENTATION MEASUREMENTS</b>
19.20	Ignatovich S., Yutskevych S., Makarov I. <b>FEATURES OF AIRCRAFT STRUCTURES CORROSION DAMAGE DURING STORAGE UNDER COVID-19 RESTRICTIONS</b>



**SESSION 2**

**DAMAGE DIAGNOSTICS**

11 / 10 / 2021, Monday

- Session 2 -	Co-chairmen: <i>Yuzefovych R, Zinkovskii A.</i>
14.20	<i>Derkach O., Zinkovskii A., Onyshchenko Ye., Savchenko K.</i> <b>NOTCH-TYPE SURFACE DAMAGE INFLUENCE ON THE FREQUENCY OF THE PRINCIPAL MODE OF THE COMPOSITE CANTILEVER BEAM FLEXURAL VIBRATIONS</b>
14.40	<i>Hud M.</i> <b>SIMULATION OF THE STRESS-STRAIN STATE OF A CYLINDRICAL TANK UNDER THE ACTION OF FORCED OSCILLATIONS</b>
15.00	<i>Hud M., Chornomaz N., Grytseliak R.</i> <b>STUDY OF THE JOINT WORK OF THE FOUNDATIONS AND THE SPATIAL TOWER UNDER THE ACTION OF DYNAMIC LOADS</b>
15.20	<i>Karuskevich M., Maslak T., Gavrylov Ie., Pejkowski Ł., Seyda J.</i> <b>STRUCTURAL HEALTH MONITORING FOR LIGHT AIRCRAFT</b>
15.40	<i>Ilyushenko V., Maydanchuk T., Lukianchenko E., Kozulin S.</i> <b>REASONS OF METAL DEGRADATION OF COPPER CHAMBERS OF ARC STEELMAKING FURNACES DURING OPERATION AND POSSIBILITIES OF THEIR RESTORATIVE REPAIR</b>
16.00	<i>Toribio J.</i> <b>SCULPTURE AND FRACTURE MECHANICS</b>
16.20	
16.40	<i>Peremitko V., Nosov D., Yevdokymov A.</i> <b>THE INFLUENCE OF SILICON AND ALUMINUM CONTENT ON THE DEFECT OF THE LAYER OF HIGH-CHROMIUM CAST IRON THAT ISSURFACEDDURING THE MANUFACTURE OF BIMETALLIC SHEET</b>


17.00	<i>Stankevych O., Skalskyi V., Klym B., Velykyi P.</i> <b>IDENTIFICATION OF FRACTURE MECHANISMS IN CEMENTITIOUS COMPOSITES USING WAVELET TRANSFORM OF ACOUSTIC EMISSION SIGNALS</b>
17.20	<i>Javorskyj I., Yuzefovych R., Lychak O., Matsko I., Semenov P.</i> <b>EVALUATION OF THE MECHANISM DAMAGE USING MODEL OF VIBRATION SIGNAL AS A PERIODICALLY CORRELATED RANDOM PROCESS</b>
17.40	<i>Maylo A.</i> <b>STATISTICAL CHARACTERISTICS OF THE RELIEF OF DEFORMATIONAL DEFECTS OF THE SURFACE OF A METAL POLYCRYSTAL AT THE FATIGUE AS A FACTOR OF OPERATIONAL AGING OF A STRUCTURAL MATERIAL</b>
18.00	<i>Pawel Stabla, Szymon Duda, Pawel Zielonka, Grzegorz Lesiuk</i> <b>REVIEW OF MONITORING TECHNIQUES OF COMPOSITE BARS AND ANCHORAGE SYSTEMS</b>
18.20	<i>Błażejowski W., Barcikowski M., Stosiak M., Lesiuk G., Lubecki M., Stabla P., Smolnicki M., Bury P., Towarnicki K., Warycha J., Duda Sz.</i> <b>ACOUSTIC EMISSION AND STRAIN MONITORING OF COMPOSITE PRESSURE VESSEL WITH ASYMMETRIC DOMES IN PRESSURE TEST</b>
18.40	<i>Stosiak M., Lubecki M., Lesiuk G., Urbanowicz K.</i> <b>DIAGNOSING CAVITATION IN HYDROSTATIC SYSTEMS USING AN ACOUSTIC SIGNAL</b>
19:00	<i>Totosko O., Stukhlyak P., Dolgov N., Zolotiy R., Stukhlyak D.</i> <b>INVESTIGATION OF CORROSION RESISTANCE OF TWO-LAYER PROTECTIVE COATINGS</b>
19.20	<i>Prysyazhnyuk P., Ivanov O., Matvienkiv O., Marynenko S., Korol O., Koval I.</i> <b>IMPACT AND ABRASION WEAR RESISTANCE OF THE HARDFACINGS BASED ON HIGH-MANGANESE STEEL REINFORCED WITH MULTICOMPONENT CARBIDES OF TI-NB-MO-V-C SYSTEM</b>



**SESSION 3**

**CRACK INITIATION AND PROPAGATION  
LIFETIME CALCULATIONS OF MECHANICAL COMPONENTS**

11 / 10 / 2021, Monday

- Session 3 -	Co-chairmen: <i>Yasniy O., Kondryakov E.</i>
14.20	<i>Kharchenko V., Kondryakov E., Katok O., Kravchuk R.</i> <b>NUMERICAL SIMULATION OF THE PROCESSES OF DEFORMATION AND FRACTURE OF HIGH-STRENGTH MATERIALS DURING STATIC AND DYNAMIC PERFORATION OF THIN PLATES</b>
14.40	<i>Kharchenko V., Kondryakov E., Kravchuk A., Kotliarenko A.</i> <b>EXPERIMENTAL AND CALCULATIONAL STUDIES OF DEFORMATION AND FRACTURE PROCESSES OF VARIOUS TYPES OF STEELS DURING IMPACT SHEAR TESTS</b>
15.00	<i>Toribio J.</i> <b>TOWARDS A NEW CONCEPT OF CRACK PATH: A TRIBUTE TO JIM RICE</b>
15.20	<i>Kosturek R.</i> <b>THE INFLUENCE OF TOOL TRAVERSE SPEED ON THE LOW CYCLE FATIGUE PROPERTIES OF AZ31 FRICTION STIR WELDED JOINTS</b>
15.40	<i>Romashko V., Romashko-Maistruka O.</i> <b>LEVEL FORMATION AND DISCLOSURE OF NORMAL CRACKS IN REINFORCED CONCRETE ELEMENTS AND STRUCTURES</b>
16.00	<i>Didych I., Yasniy O., Fedak S., Lapusta Yu.</i> <b>PREDICTION OF JUMP-LIKE CREEP USING PRELIMINARY PLASTIC STRAIN</b>
16.20	
16.40	<i>Pidgurskyi I., Yasniy P., Pidgurskyi M., Baranovsky V., Shelestovskii B., Stashkiv M.</i> <b>MATHEMATICAL MODEL FOR ESTIMATING SIF <math>K_I</math> DURING COALESCENCE OF TWO IDENTICAL SURFACE CRACKS</b>




17.00	<i>O. Kononchuk, V. Iasnii, N. Lutsyk</i> <b>PREDICTION OF REINFORCED CONCRETE STRUCTURES BEHAVIOR USING FINITE ELEMENT METHOD</b>
17.20	<i>Toribio J.</i> <b>A MODIFIED PARIS LAW APPROACH TO FATIGUE CRACK GROWTH IN COLD DRAWN PEARLITIC STEEL</b>
17.40	<i>Belodedenko S., Hanush V., Hrechanyi O.</i> <b>FATIGUE LIFETIME MODEL UNDER A COMPLEX LOADING WITH APPLICATION OF THE AMALGAMATING SAFETY INDICES RULE</b>
18.00	<i>Pidgurskyi I., Stashkiv M., Pidgurskyi M., Rudyak Yu., Ripetskyi Ye., Ripetskyi R., Lazaryuk V.</i> <b>PREDICTION OF RESIDUAL DURABILITY OF STRUCTURAL ELEMENTS WITH IDENTICAL SURFACE CRACKS TAKING INTO ACCOUNT THE STAGE OF THEIR COALESCENCE</b>
18.20	<i>Yasniy P., Okipnyi I., Dyvdyk O., Rudawska A., Senchyshyn V.</i> <b>RESIDUAL LIFETIME PLATES WITH PREEXISTING CRACK NEAR COLD EXPANDED HOLE</b>
18.40	<i>Dolgov N., Stukhlyak P., Totosko O., Chykhira I.</i> <b>INVESTIGATION OF THE DELAMINATION OF EPOXY COMPOSITE COATINGS UNDER THE ACTION OF NORMAL AND SHEAR STRESSES</b>
19.00	<i>Justyna Ławrecka, Michał Barcikowski, Szymon Duda, Grzegorz Lesiuk</i> <b>DOUBLE CANTILEVER BEAM TEST FOR ASSESSMENT OF FRACTURE TOUGHNESS OF BI-DIRECTIONAL GLASS FIBER - MODIFIED EPOXY RESIN LAMINATES</b>
19.20	<i>Babii A., Dovbush T., Khomuk N., Dovbush A., Tson A., Oleksyuk V.</i> <b>MATHEMATICAL MODEL OF A LOADED SUPPORTING FRAME OF A SOLID FERTILIZERS DISTRIBUTOR</b>



**SESSION 4**

**STRENGTH AND RELIABILITY OF COMPONENTS**

11 / 10 / 2021, Monday

- Session 4-	Co-chairmen:	Lapusta Yu., Iasnii V.
14.20	<i>Toribio J.</i> <b>TEACHING FRACTURE MECHANICS AND STRUCTURAL INTEGRITY: THE SPANISH EXPERIENCE</b>	
14.40	<i>Bykiv N., Yasniy P., Lapusta Yu., Iasnii V.</i> <b>FINITE ELEMENT ANALYSIS OF REINFORCED-CONCRETE BEAM WITH SHAPE MEMORY ALLOY UNDER THE BENDING</b>	
15.00	<i>Yasniy P., Homon S., Iasnii V., Gomon S. S., Gomon P., Savitskiy V.</i> <b>STRENGTH PROPERTIES OF CHEMICALLY MODIFIED SOLID WOODS</b>	
15.20	<i>Gomon S.S., Gomon P., Homon S., Polishchuk M., Dovbenko T., Kulakovskiy L.</i> <b>IMPROVING THE STRENGTH OF BENDING ELEMENTS OF GLUED TIMBER</b>	
15.40	<i>Ivanov O., Prysyzhnyuk P., Shlapak L., Marynenko S., Bodrova L., Kramar H.</i> <b>RESEARCHING OF THE STRUCTURE AND PROPERTIES OF FCAW HARDFACING BASED ON FE-TI-MO-B-C WELDED UNDER LOW CURRENT</b>	
16.00	<i>Panchenko S., Fomin O., Vatulia G., Ustenko O., Lovska A., Rybin A., Voloshyna L.</i> <b>DETERMINATION OF LOADING OF A HOPPER CAR WITH AN IMPROVED DESIGN OF THE SPINE BEAM</b>	
16.20	 Coffee Break	
16.40	<i>Fomin O., Lovska A., Bohomia V., Berestovoi I.</i> <b>DETERMINATION OF DYNAMIC LOADING OF A TANK WAGON WITH MALLEABLE LINKS BETWEEN THE POT AND THE FRAME</b>	

17.00	<i>Kozulin S., Lychko I., Maydanchuk T., Ilyushenko V., Lukianchenko E.</i> <b>MECHANICAL PROPERTIES (PLASTICITY) OF WELDED CONNECTIONS PERFORMED BY ELECTRIC SLAG WELDING UNDER REPAIR CONDITIONS</b>
17.20	<i>Prokhorenko O., Prokhorenko V., Hainutdinov S., Pulka Ch.</i> <b>NUMERICAL SIMULATION RESULTS OF THE PHASE COMPOSITION DISTRIBUTION IN THE BUTT WELDED JOINT OF DC04 STEEL FOR DIFFERENT TECHNOLOGICAL WELDING SCHEMES</b>
17.40	<i>Shapovalov V., Protokovilov I., Porokhonko V.</i> <b>STRUCTURE AND MECHANICAL PROPERTIES OF THICK-WALLED JOINTS OF Ti-6-4 TITANIUM ALLOY MADE BY ELECTROSLAG WELDING</b>
18.00	<i>Romashko V., Romashko-Maistruka O.</i> <b>STRENGTH RESOURCE CALCULATION OF THE REINFORCED CONCRETE ELEMENTS ACCORDING TO THE ENERGY CRITERION</b>
18.20	<i>Kharchenko V., Katok O., Sereda A., Rudnitskyi M., Kravchuk R., Bisyk S.</i> <b>DETERMINATION OF STRENGTH CHARACTERISTICS OF HIGH-STRENGTH SHEET STEELS BY HARDNESS AND INSTRUMENTED INDENTATION</b>
18.40	<i>Sobaszek Lukasz, Yasniy Petro, Iasnii Volodymyr</i> <b>STUDY OF CYCLIC RESPONSE OF SMA BASED DAMPING DEVICE</b>
19.00	<i>Prokhorenko O., Hainutdinov S., Prokhorenko V., Pulka Ch., Senchyshyn V.</i> <b>NUMERICAL SIMULATION RESULTS OF THE KINETICS OF TEMPERATURE AND PHASE COMPOSITION IN A BUTT JOINT MADE FROM STEEL DC04 DURING A SINGLE-PASS SUBMERGED ARC WELDING</b>



**TC 10 MEETING**  
**Environmentally Assisted Cracking and Hydrogen Embrittlement**

*12 / 10 / 2021, Tuesday*

**- Session -**

**Co-chairmen: Nykyforchyn H., Toribio J.**

***15.00-16.45***



**TC 13 MEETING**

*12 / 10 / 2021, Tuesday*

**- Session -**

**Co-chairmen: Yasniy P., Marsavina L.**

***17.00-18.45***

MINI-SYMPOSIA MEETING

Hydrogen Degradation

13 / 10 / 2021, Wednesday

- Session MM1-	Co-chairmen: Toribio J., Nykyforchyn H.	
14.00	<i>Toribio J.</i> <b>THE ESIS TC10 COMMITTEE ON ENVIRONMENTALLY ASSISTED CRACKING AND HYDROGEN EMBRITTLEMENT</b>	
14.20	<i>Toribio J.</i> <b>A KINEMATIC FRACTURE CRITERION FOR HYDROGEN EMBRITTLEMENT OF CRACKED SAMPLES OF PEARLITIC STEEL BASED ON THE CRACK TIP STRAIN RATE</b>	
14.40	<i>Dmytrakh I., Syrotyuk A., Leshchar R.</i> <b>SPECIFIC MECHANISM OF HYDROGEN INFLUENCE ON DEFORMABILITY AND FRACTURE OF LOW-ALLOYED PIPELINE STEEL</b>	
15.00	<i>Toribio J.</i> <b>A KINEMATIC FRACTURE CRITERION FOR HYDROGEN EMBRITTLEMENT OF CRACKED SAMPLES OF PEARLITIC STEEL BASED ON THE NOTCH TIP STRAIN RATE</b>	
15.20	<i>Nykyforchyn H., Unigovskyi L., Zvirko O., Hredil M., Krechkovska H., Student O., Tsyurulnyk O.</i> <b>SUSCEPTIBILITY OF CARBON PIPELINE STEELS OPERATED IN NATURAL GAS DISTRIBUTION NETWORK TO HYDROGEN-INDUCED CRACKING</b>	
15.40	<i>Toribio J.</i> <b>FRACTURE MECHANICS APPROACH TO HYDROGEN ASSISTED MICRODAMAGE IN CRACKED SAMPLES OF HIGH-STRENGTH EUTECTOID PEARLITIC STEEL: RESEMBLING MICHELANGELO STONE SCULPTURE TEXTURE</b>	


**MINI-SYMPOSIA MEETING**

**Technogenic and Environmental Risks in the Energy Sector: Estimation,  
Forecasting, Prevention**

13 / 10 / 2021, Wednesday

- Session MM2-	Co-chairmen: <b>Yasniy P., Poberezhny L.</b>	
14.00	<i>Hrytsulyak H., Lopushnyak V., Korol O.</i> <b>MINIMIZATION OF CONSEQUENCES OF FAILURES AT OIL AND GAS PRODUCTION FACILITIES</b>	
14.20	<i>Kalyn T., Popovych P., Poberezhny L., Rudyak Yu.</i> <b>EVALUATION OF THE INHIBITOR EFFECT OF ASCORBIC ACID ON THE CORROSION OF STEEL 17GS IN THE ENVIRONMENT OF NS 4</b>	
14.40	<i>Sydorenko V., Yeremenko S., Vambol V., Vambol S., Poberezhna L.</i> <b>INFLUENCE OF FOREST FIRE ON ECOLOGICAL AND RADIATION SITUATION IN RADIOACTIVELY CONTAMINATED AREAS</b>	
15.00	<i>Chudyk I., Hrytsanchuk A., Poberezhna L., Khomyn V., Prykhodko M., Mishchuk B.</i> <b>ASSESSMENT AND MINIMIZATION OF THE IMPACT OF OIL AND GAS PRODUCTION ON ENVIRONMENTAL PROTECTION AREAS</b>	
15.20	<i>Krechkovska H., Kulyk B., Vira B., Student O.</i> <b>EFFECT OF LONG-TERM OPERATION OF 17H1S STEEL OF THE MAIN GAS PIPELINES ON THE CHANGE IN ITS MECHANICAL PROPERTIES</b>	
15.40	<i>Ivanov O., Bortnyak O., Hryhorskyi S., Poberezhny L., Zapukhlyak N.</i> <b>ASSESSMENT OF THE DEGREE OF ENVIRONMENTAL POLLUTION IN EMERGENCY SITUATIONS ON MAIN OIL PIPELINES</b>	
16.00	<i>Poberezhny L., Stanetsky A., Poberezhna L., Markhalevych V.</i> <b>RISK ASSESSMENT OF ACCIDENTS AT OIL AND GAS INFRASTRUCTURE OBJECTS NEAR THE OOS DISTINCTION LINE</b>	
16.20	<i>Bezhenov S.</i> <b>EVALUATING THE DAMAGE OF THE POWER PLANTS MATERIALS BASED ON THE AE MODEL OF MATERIAL DEGRADATION UNDER HIGH-CYCLIC FATIGUE CONDITIONS</b>	

<b>16.40</b>	<i>Yatsyshyn T., Polutrenko M., Maruschak P., Poberezhny L., Martyniuk R.</i> <b>ASSESSMENT OF TECHNOGENIC AND ENVIRONMENTAL RISKS IN THE CONSTRUCTION AND OPERATION OF OIL AND GASWELLS</b>
<b>17.00</b>	<i>Kryzhanivsky Ye., Grudz V., Zapukhlyak V., Poberezhna L., Melnychenko Y., Stasiuk R.</i> <b>PROSPECTS OF UTILIZING UNLOADED PARTS OF NATURAL GAS TRANSMISSION PIPELINES IN TECHNOLOGIES OF CARBON DIOXIDE CAPTURE AND STORAGE</b>
<b>17.20</b>	<i>Zapukhlyak V., Melnychenko Y., Maruschak P., Poberezhny L., Grudz Ya., Drin N.</i> <b>ASSURANCE OF RELIABILITY OF GAS-HYDROGEN MIXTURE TRANSPORTATION IN PIPELINE SYSTEMS</b>
<b>17.40</b>	<i>Nastaran Mozaffari, Niloofar Mozaffari, Nadeem Ahmad Khan, Parveen Sihag, Vambol V., Vambol S.</i> <b>THE PERFORMANCE OF AL<sub>2</sub>O<sub>3</sub>-DOPED NANOADSORBENTS ON CARBON MONOXIDE CAPTURE: A REVIEW</b>
<b>18.00</b>	<b>Closing of the Conference</b>