



VIII INTERNATIONAL CONFERENCE
ON WELDING AND RELATED
TECHNOLOGIES



WRT 2026

5-9 October 2026

Uzhhorod, Ukraine

PROGRAM



PATON

JOIN MATERIALS
PEOPLE
COUNTRIES

E.O. Paton Electric Welding Institute of the NAS of Ukraine
NGO "WRTYS"
IRC NANO

**VIII INTERNATIONAL CONFERENCE
“WELDING AND RELATED TECHNOLOGIES”
WRT2026**

Program

5-9 October, 2026, Uzhhorod, Ukraine

Kyiv 2026

PROGRAM
VIII INTERNATIONAL CONFERENCE ON WELDING AND RELATED TECHNOLOGIES (WRT 2026)

Associated event



Organizer



Co-organizers



INTERNATIONAL PROGRAM COMMITTEE

HEAD OF PROGRAM COMMITTEE

Igor KRIVTSUN (Ukraine)

INTERNATIONAL COMMITTEE

(in alphabetic order)

Serhiy AKHONIN (Ukraine)

Oleksandra ANTONIOUK (Ukraine)

Viktor Gorbach (Ukraine)

Luca COSTA (Italy)

Volodymyr KORZHYK (Ukraine)

Viktor KVASNYTSKYI (Ukraine)

Steffen KEITEL (Germany)

Serhiy MAKSYMОВ (Ukraine)

Zinoviy NAZARCHUK (Ukraine)

Jean-Marc OLIVE (France)

Valeriy POZNIakov (Ukraine)

Uwe REISGEN (Germany)

Viktor SHAPOVALOV (Ukraine)

Igor VLADYMYRSKYI (Ukraine)

Joanna WOJEWODA-BUDKA (Poland)

ORGANIZING COMMITTEE

HEAD OF THE ORGANIZING COMMITTEE

Leonid LOBANOV

MEMBERS OF THE ORGANIZING COMMITTEE

Ganna POLISHKO

Illia KLOCHKOV

Maksym IURZHENKO

Serhiy SCHWAB

Mariia PRYZIHLEI

Roman SELIN

Vadym YASHENKOV

Lina GRYBANOVA

5 October 2026

*Eastern European Time
(EET)*

17.00 - 19.00

Registration & Meeting

19.00 - 21.00

Welcome reception

6 October 2026

*Eastern European Time
(EET)*

09.30 - 10.00

Registration & Meeting

10.00 - 10.20

Opening & Greetings

Igor KRIVTSUN	<i>WRT 2026 Chairman, PWI Director, Ukraine</i>
Stephan EGERLAND	<i>IIW President, Austria</i>
Fernando MANAS	<i>EWf, Spain</i>
Oleksandra ANTONIQUK	<i>SCNC of Ukraine, Ukraine</i>

Chairman Serhiy MAKSYMOW

10.20 - 10.50

Igor KRIVTSUN, <i>Ukraine (in person)</i>	Research and development activities of the E.O. Paton Electric Welding Institute in the field of welding and related technologies
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10.50 - 11.10

Dmytro KOVALCHUK, <i>Ukraine (in person)</i>	3D printing of Refractory Metals Using xBeam 3D Metal Printing Technology
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11.10 - 11.30

Rafael NUNES, <i>Belgium (online)</i>	Wire Arc Additive Manufacturing of High-Strength Aluminium 7075: Enabling On-Demand Production for Defence
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11.30 - 12.00

Coffee-break

12.00 - 12.20

Oleksii SEMENOV, <i>Ukraine (in person)</i>	Modelling of Weld Pool Dynamics and Penetration in Laser-Activated TIG Spot Welding of Copper
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12.20 - 12.40

Juliana Guadalupe Rosado Carrasco, <i>Mexico (online)</i>	Dynamic Strengthening Of DP980 Steel Welded by the Cold Metal Transfer Process
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12.40 - 13.00

Wojciech ŁACISZ, <i>Poland (in person)</i>	Manufacturing of Metal Powders with Customized Chemical Composition for Welding and Coating Applications via Ultrasonic Atomization
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13.00 - 14.00

Lunch

Chairman Viktor KVASNYTSKYI

14.00 - 14.30	Patricio MENDEZ, Canada (<i>online</i>)	Handheld Laser Beam Welding and its Fast Adoption in Industry
14.30 - 14.50	Andrii MOMOT, Ukraine (<i>in person</i>)	Numerical Modelling of Anode Processes in an Electric Arc with Convectively Evaporating Anode
14.50 - 15.10	Adelaide Almeida, Portugal (<i>online</i>)	Advancing Additive Manufacturing Qualifications for the Aerospace and Defence Sectors: The Role of the AILEEN Centres of Vocational Excellence
15.10 - 15.30	Viktor SAVITSKY, Ukraine (<i>in person</i>)	Application of Digital Image Correlation for Deformation Assessment in Laser Directed Energy Deposition (DED-L)
15.30 - 16.00	Coffee-break	
16.00 - 16.20	Roman YUZEFOVYCH, Ukraine (<i>in person</i>)	Analysis of the Non-Stationary Properties of Bearing Case Vibration Internal with Axial Misalignment
16.20 - 16.40	Rostyslav PODOLSKYI, Ukraine (<i>online</i>)	Influence of Selective Laser Melting Parameters on the Geometry of the Melt Pool of Inconel 718 Alloy
16.40 - 17.00	Andrii CHORNENKYI, Ukraine (<i>in person</i>)	Problems of Healing Anisotropic Bodies with Cracks by Injection

7 October 2026

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Chairman Ganna KONONENKO

10.00 - 10.30	Madeleine Du Toit, Australia (<i>online</i>)	From Outback to Ocean - Confronting pipeline welding challenges in Australia
10.30 - 10.50	Viktor KVASNYTSKYI, Ukraine (<i>in person</i>)	AI-driven Solutions for WAAM Production of Spatial Products
10.50 - 11.10	Oleh MAKHNENKO, Ukraine (<i>online</i>)	Increasing the Service Life of Welded Joints of Absorbing Rods of the Control And Protection System of WWER-1000 Reactors
11.10 - 11.30	Oleksii KAGLYAK, Ukraine (<i>in person</i>)	Laser Forming and Strengthening Treatment of Metal Sheet Materials
11.30 - 12.00	Coffee-break	

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12.00 - 12.20	Serhiy MAKSYMOW, <i>Ukraine (in person)</i>	Corrosion Resistance of Welded Joints of 2205 Duplex Steel During Wet Underwater Welding
12.20 - 12.40	Serhii SALII, <i>Ukraine (online)</i>	Hybrid Laser-Casting Technology for Manufacturing Bimetallic Materials with a Corrosion-Resistant Ni-Cr-W Functional Layer
12.40 - 13.00	Oleksandr ROMANENKO, <i>Ukraine (in person)</i>	Development of High-Frequency Generators and Instruments for Electroporation
13.00 - 14.00	Lunch	
	<u>Chairman Valeriy NAUMYK</u>	
14.00 - 14.30	Ebrahim Karimi-Sibaki, <i>Austria (online)</i>	Multiphysics Modeling of Electroslag Remelting (ESR): From Fundamental Phenomena to Process Understanding
14.30 - 14.50	Mykhailo VORON, <i>Ukraine (in person)</i>	Structure-Phase State and Properties of Al-4Ni-11La Creep-Resistant Casting Alloy after Mg, Si, Cu and Mn Addition
14.50 - 15.10	Stanislav TSYHICHKO, <i>Ukraine (online)</i>	The Effect of the Induction Crucible-Free Zone Melting Process on the Structure and Properties of the Intermetallic Alloy of the Ti-Al-Nb-Zr-Co-LaB ₆ Alloying System.
15.10 - 15.30	Yurii KOSTETSKYI, <i>Ukraine (in person)</i>	Metallurgical Aspects of Fe-Al Alloy Production using Electroslag Technology
15.30 - 16.00	Coffee-break	
16.00 - 16.20	Kateryna KVASNYTSKA, <i>Ukraine (in person)</i>	The Influence of Alloying Elements on the Wear Resistance of Iron-Based Alloys for Improving Special Properties of Cast Parts for Power Engineering
16.20 - 16.40	Pavlo YAKOVCHUK, <i>Ukraine (online)</i>	A Leave-One-Material-Out Study of Neural Networks and Gaussian processes for Multiaxial Fatigue Life
16.40 - 17.00	Serhii LAVRYS, <i>Ukraine (in person)</i>	Improving the Corrosion and Wear Resistance of 3D-Printed Titanium Alloy Ti-6Al-4V by Gas Nitriding

8 October 2026

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Chairman Serhiy SCHWAB

10.00 - 10.30	Mykola LAVRSKYI, France (<i>online</i>)	Deep Learning for EBSD-Based Phase Segmentation in Low-Carbon Steels
10.30 - 10.50	Ganna KONONENKO, Ukraine (<i>in person</i>)	Influence of Technological Parameters of the LPBF Process on the Formation of a Single Track in the Nickel Superalloy ABD900
10.50 - 11.10	Oleksii GORNOSTAI Ukraine (<i>online</i>)	Magnesium Alloys and Their Functional Coatings on Titanium Substrates for Biomedical Applications
11.10 - 11.30	Valeriy NAUMYK, Ukraine (<i>in person</i>)	Improving the Technology of Manufacturing Cast Parts for Aviation and Power Engineering
11.30 - 12.00	Coffee-break	
12.00 - 12.20	Orest BILYY, Mexico (<i>online</i>)	Application of Artificial Neural Networks for Processing Fatigue Crack Growth Monitoring Data
12.20 - 12.40	Yevhen TITKOV, Ukraine (<i>in person</i>)	Fine Structure Features of the Low-Cost Ti-1.5Fe-0.4O Titanium Alloy
12.40 - 13.00	Maksym RUSYNYK , Ukraine (<i>online</i>)	Influence of Electron Beam Parameters on the Formation of Temperature Gradient and Microstructure of Powder Hard Alloy Compacts

13.00 - 14.00

Lunch

Chairman Pavlo KALIUZHNYI

14.00 - 14.20	Dmytro KOVALENKO, Ukraine (<i>in person</i>)	Advances and Prospects of Experimental Research into High-Frequency Pulsed Tig Welding
14.20 - 14.40	Pravin BHAKTE, India (<i>online</i>)	Influence of Weld Geometry Characteristics on the Mechanical Performance of Fiber Laser Welded Dissimilar SS316 Stainless Steel–Inconel 718 Joints
14.40 - 15.00	Vladyslav MATVIICHUK, Ukraine (<i>online</i>)	Electron Beam Powder Bed Fusion of VT6 Titanium Alloy for Aircraft Applications

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15.00 - 15.10	Ivan TRNKA, <i>Czech Republic</i> <i>(in person)</i>	SaZ s.r.o. and the E.O. Paton Institute Cooperation
15.10 - 15.20	Yanchao Hu, <i>Ukraine</i> <i>(online)</i>	Numerical Investigation of Thermal Behavior under Different Pulse-Frequency Matching Conditions in Double-Pulse Laser–MAG Hybrid Welding
15.20 - 15.30	Ziqiao Zhong, <i>Ukraine (online)</i>	The Effect of Current Polarity on the Arc Stability and Microstructure of Underwater Submerged-Arc Welds
15.30 - 16.00	Coffee-break	
16.00 - 16.20	HERIBERTO GRANADOS BECERRA, <i>Mexico</i> <i>(online)</i>	Creep Behavior and Microstructural Evolution at 725 °C of the Inconel-625/AL-6XN Welded Joint Welded Using Synergic GMAW-P
16.20 - 16.40	Mykola CHERVIAKOV, <i>Ukraine (in person)</i>	Thermodeformation Profile of As-Deposited Nickel-Based Alloys as a New Integral Technological Characteristic for Arc Additive Manufacturing
16.40 - 17.00	Vladyslav ONISHCHENKO, <i>Ukraine (online)</i>	Comparative Buckling Analysis of Metallic and Polymeric Thin-Walled Deployable Shell Structures
19.00 - 23.00	Conference Dinner	

9 October 2026

*Eastern European
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Chairman Maksym IURZHENKO

10.00 - 10.30	Sergio de Traglia AMANCIO Filho, <i>Austria (online)</i>	Friction-based Spot Welding and Joining of Thermoplastics And Hybrid Structures
10.30 - 10.40	Donghu ZENG, <i>Ukraine (online)</i>	A Fully Coupled Path-Based Reduced-Order Model for Transient Heat Transfer during PE100 Pipe Butt-Fusion Welding
10.40 - 10.50	Maksym KOVALCHUK, <i>Ukraine (online)</i>	Influence of Hydrogen Mixtures on Polymer Gasket Materials
10.50 - 11.00	Dmytro KUNYTSKYI, <i>Ukraine (online)</i>	Structure and Properties of Biopolymer Cryogel Materials Obtained by 3D Bioprinting

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11.00 - 11.10	Viktoriia TALANIUK, <i>Poland (online)</i>	MWCNT/PDMS Nanocomposites for Multifunctional Thermal and Mechanical Energy Harvesting
11.10 - 11.20	Ivan KOROLKOV, <i>Ukraine (online)</i>	FDM 3D Printing of Bioactive PLA+ Structures with a Hydroxyapatite Coating: Mechanical and Thermomechanical Characterization
11.20 - 11.30	Oleksandr LYSENKO, <i>Ukraine (online)</i>	Infrared Thermography and Computer Vision for In-Situ Monitoring of Interlayer Adhesion in FDM 3D Printing
11.30 - 12.00	Coffee-break	
12.00 - 12.40	Poster session	
12.40 - 13.00	Closing & Wrap-up	

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