



Administrative Working Units

Draft Program YPIC 2026 Online 5-6 February 2026

WG-YPSC

Author: Tamás Tóth

Comments: YPIC Draft Program to be held online, 5th February 14:00 to 17:10 CET, 6th February 10:55 – 13:50

Time	Agenda Item	Speaker	Actions
	DAY 1: 5th FEBRUARY 2026		
14:00	Opening Day 1		
	Welcome from IIW	Luca Costa, CEO (Italy)	
	Welcome from WG-YP	Ghazal Moeini, Chair WP-YP (Germany)	
14:20	Invited Speaker Presentation		
	Keynote Presentation	Dr. Mitchell Grams (Canada)	
14:50	YPIC Poster Presentation Day 1		
14:50	A1 – Knowledge-integrated machine learning for the monitoring of welding processes	Gabriel Antal (Italy)	
15:00	A2 – Assessment of the local stresses on welding joints by machine learning considering the complex weld shape	Xiru Wang (Germany)	
15:10	A3 – From Past to present: The lifecycle of heritage bridges	Juravle Andreia-Iulia (Romania)	
15:20	A4 – Manufacturing a pulley using the WAAM welding process	Andrei Becheru (Romania)	
15:30	Break		
15:40	A5 – Engineering of Heat Affected Zone in Pulsed Laser Welding of Martensitic Stainless Steels	Derek Schaffer (USA)	
15:50	A6 – Building Al-to-Steel Hybrid Components via EHLA: Role of CuNiSiCr Buffer Layer and Thermal Management	João Henrique Silva Pinto (Brazil)	

16:00	A7 – Smart Generative AI for Non-Destructive Reconstruction of Weld Cross-Sections in Resistance Spot Welding	Ahmad Aminzadeh (Canada)	
16:10	A8 – Real-time monitoring of welding-induced deformations in shipbuilding plates using a sensor-equipped carriage	Andrei Angelo Midan (Romania)	
16:20	A9 – Model-Process-Structure Relationship Development Through Multi-Modal Monitoring of Laser Beam Welding of 304L Stainless Steel	Richard Li (USA)	
16:30	A10 – Development of Non-Destructive Reversible Joining for EV Battery Welds	Ragavendran Meenakshisundaram (UK)	
16:40	A11 – Multiaxial Fatigue Evaluation of Pipe Girth Welds Using Load Path-Length Based Parameter	Tara Larkin (USA)	
16:50	A12 – Assessing Mechanical Property Sensitivity to Sampling Location in Wire Arc Additive Manufacturing Components	Mia Abdulla (Canada)	
17:00	A13 – Evaluating the Mechanical Contribution of Si-Induced Precipitates in CuSi3-Based Laser Braze Metal	Xiaoye Zhao (Canada)	
17:10	Closing Day 1		
	DAY 2: 6th FEBRUARY 2026		
10:55	Opening Day 2		
11:00	Invited Speaker Presentation		
	Keynote Presentation	Dr. Matteo Pedemonte (Italy)	
11:30	YPIC Poster Presentation – Day 2		
11:30	B1 – Mechanical Properties Enhancement of High-Pressure Hydraulic Tubes through High-Strength Induction Cladding	Adlan Mizan (Indonesia)	
11:40	B2 – Melt pool dynamic in Wire-Arc Additive Manufacturing	Hoang Le Thu Trang (Vietnam)	
11:50	B3 – Breakthrough WAAM and I-Mobile WAAM Robot	Nguyen Trong Duc (Vietnam)	
12:00	B4 – Selective Aluminum-Surface Stirring Enabling Cast Iron–Aluminum Joining	Uetake Ryota (Japan)	
12:10	B5 – Development of Laser Ultrasonic Robotic System for Internal Defect Detection of Lap-Fillet Welds	Nitta Seiya (Japan)	
12:20	Break		

12:30	B6 – Improving out of distribution generalization for online weld expulsion inspection using Physics Informed Neural Networks (PINN)	Yu-Jun Xia (China)	
12:40	B7 – Multiphysics numerical investigation of UFPC-assisted underwater wet flux-cored arc welding	Xuefei Cui (China)	
12:50	B8 – Failure mechanism and quality evaluation in micro-resistance spot welds of braided Ag-plated Cu conductor to Cu interconnector	Qiang Song (China)	
13:00	B9 – Alumina joining for the semiconductor industry	Karol Kuglarz (Switzerland)	
13:10	B10 – Material selection in residual stress investigations for hardfacing applications	Lorenz Uhlenberg (Germany)	
13:20	B11 – Ultrasonic Welding of ETP Copper Stranded Wires to Sheets	Maha Ahmad (Belgium)	
13:30	B12 – Application of a Soft Root Technique to the Welding of High Strength Steels (HSS)	Gabriel Souza (UK)	
13:40	YP Open Discussion		
13:50	Closing Day 2		