



Commission XVI
Polymer Joining and Adhesive Technology

Meeting agenda

XVI-1022-24

77th Annual Assembly of the International Institute of Welding July 7-10, 2024 - Rhodes, Greece

IIW2024 Annual Assembly - C-XVI						Room	
Date	Time	Presentation	Presenting author	Title	EXECUTIVE A	EXECUTIVE B	
July 8, 2024	14:30-14:45	Administrative Meeting				-	C-XVI
	14:45-15:15	XVI-1019-24	Miranda Marcus	Assessing tolerable viscosity differences in polymer-to-polymer welding			
	15:15-15:45	XVI-1020-24	Fabian Friedrich	Analysis of the cooling phase during heated tool welding of large wall thicknesses			
	15:45-16:15	XVI-1021-24	Mirko Albrecht	Analysis of material degradation and its effect on weld seam strength during serial hot gas welding			
	16:15-16:45	Break					
	16:45-17:15	XVI-1015-24	Maksym Iurzhenko	High speed welding of the polymer materials			
	17:15-17:45	XVI-1004-24	Maral Khalifa	High-Density Polyethylene HDPE Pipes Welding Process			
	17:45-18:15	XVI-1022-24	Su Jin Lee	Material properties and OCT observation of Plastic Direct Joining using Diode Laser			
	18:15-18:30	Administrative Meeting					
July 9, 2024	14:30-14:45	Administrative Meeting				-	C-XVI
	14:45-15:15	XVI-1002-24	Christian Held	Influence of the screw dome geometry on the mechanical strength of direct screw fastened SMC/BMC components			
	15:15-15:45	XVI-1003-24	Jan Wipperman	Numerical modelling of clamp load relaxation of plastic nuts under varying moisture and fibre content			
	15:45-16:15	XVI-1013-24	Phil Bates	Debris formation during the vibration welding of polypropylene			
	16:15-16:45	Break					
	16:45-17:15	XVI-1008-24	Theresa Arndt	Experimental investigations on anvil-free ultrasonic welding for welding situations with one-sided access			
	17:15-17:45	XVI-1018-24	Gean Marcatto	Ultrasonic joining of additively manufactured reinforced carbon-fiber polyamide with wood			
	17:45-18:15	XVI-1017-24	Gean Marcatto	Joining wood-reinforced polymer by additive manufacturing			
18:15-18:30	Administrative Meeting						
July 10, 2024	9:00-9:15	Administrative Meeting				C-XVI	-
	9:15-9:45	XVI-1010-24	Klaus Schricker	Distortion in laser-based joining of unreinforced polypropylene with AISI 304 thin sheets			
	9:45-10:15	XVI-1012-24	Takaaki Miyuchi	Direct joining of thermoplastics and metals using the anchor effects.			
	10:15-10:45	XVI-1014-24	Jeoung Han Kim	Surface Treatment for Enhanced Direct Bonding of Cast Polypropylene to Aluminum 8079 in Battery Pouch Films			
	10:45-11:15	Break					
	11:15-11:45	XVI-1005-24	Julian Gilich	Influences on the Material Displacement and Compression Stresses in the Joining Process of Highly Viscous Thermal Interface Materials			
	11:45-12:15	XVI-1006-24	Nick Chudalla	Fracture Failure Analysis of Adhesively Bonded Joints			
	12:15-12:45	XVI-1007-24	Lucas Hermelingmeier	The influence of embedded fiber optic sensors on the global mechanical behaviour of adhesives and adhesively bonded joints			
	12:45-13:00	Administrative Meeting					
	10:45-11:15	Break					
	14:30-14:45	Administrative Meeting					
	14:45-15:15	XVI-1009-24	Adelaide Almeida	Improving Adhesive Bonding Expertise: A Cross-National Pilot Investigation within the KNOWBOND Project	-	C-XVI	
	15:15-15:45	XVI-1016-24	Matteo Pedemonte	Characterization of adhesives for hydrogen applications			
	15:45-16:15	-	-	-			
	16:15-16:45	Break					
	16:45-17:15	Technical discussion on standardisation	Matteo Pedemonte	Development of a new scheme for the adhesive classification			
17:15-17:45							
17:45-18:15							
18:15-18:30	Administrative Meeting						