

# Rapport från IIW Annual Assembly 2024

Commission XVI Polymer Joining and Adhesive Technology

## **IIW Annual Assembly 7-12 juli 2024 Rhodes**

- 19 arbetsgrupper, "commissions"

### **Commission XVI Polymer Joining and Adhesive Technology:**

- Ordförande Sergio de Traglia Amancio Filho, Univ.-Prof. Dr.-Ing. TU Graz
- Svensk delegat Marie Allvar Kärrbrant, Svetskommissionen
- Möte måndag - onsdag
- 21 presentationer, de flesta med svetsfokus
- 8 (?) artiklar rekommenderade till Welding In The World

## Presentationer med svetsfokus, IIW C-XVI AA 2024

|             |                  |                                                                                                             |
|-------------|------------------|-------------------------------------------------------------------------------------------------------------|
| XVI-1019-24 | Miranda Marcus   | Assessing tolerable viscosity differences in polymer-to-polymer welding                                     |
| XVI-1020-24 | Fabian Friedrich | Analysis of the cooling phase during heated tool welding of large wall thicknesses                          |
| XVI-1021-24 | Mirko Albrecht   | Analysis of material degradation and its effect on weld seam strength during serial hot gas welding         |
|             |                  |                                                                                                             |
| XVI-1015-24 | Maksym Iurzenko  | High speed welding of the polymer materials                                                                 |
| XVI-1004-24 | Maral Khalifa    | High-Density Polyethylene HDPE Pipes Welding Process                                                        |
| XVI-1022-24 | Su Jin Lee       | Material properties and OCT observation of Plastic Direct Joining using Diode Laser                         |
|             |                  |                                                                                                             |
| XVI-1002-24 | Christian Held   | Influence of the screw dome geometry on the mechanical strength of direct screw fastened SMC/BMC components |
| XVI-1003-24 | Jan Wipperman    | Numerical modelling of clamp load relaxation of plastic nuts under varying moisture and fibre content       |
| XVI-1013-24 | Phil Bates       | Debris formation during the vibration welding of polypropylene                                              |

## Presentationer med svetsfokus, IIW C-XVI AA 2024

|             |               |                                                                                                           |
|-------------|---------------|-----------------------------------------------------------------------------------------------------------|
| XVI-1008-24 | Theresa Arndt | Experimental investigations on anvil-free ultrasonic welding for welding situations with one-sided access |
| XVI-1018-24 | Gean Marcatto | Ultrasonic joining of additively manufactured reinforced carbon-fiber polyamide with wood                 |
| XVI-1017-24 | Gean Marcatto | Joining wood-reinforced polymer by additive manufacturing                                                 |

  

|             |                 |                                                                                                             |
|-------------|-----------------|-------------------------------------------------------------------------------------------------------------|
| XVI-1010-24 | Klaus Schricker | Distortion in laser-based joining of unreinforced polypropylene with AISI 304 thin sheets                   |
| XVI-1012-24 | Takaaki Miyuchi | Direct joining of thermoplastics and metals using the anchor effects.                                       |
| XVI-1014-24 | Jeoung Han Kim  | Surface Treatment for Enhanced Direct Bonding of Cast Polypropylene to Aluminum 8079 in Battery Pouch Films |

# Kommande

Nästa Annual Assembly:

22-27 juni 2025 Genua, Italien

Tillgång till gruppen, möten och rapporter ges till medlemmar i Svetskommissionen

- Ansök via <https://iiwelding.org/join-us/>