



## Commission XVI – Polymer Joining and Adhesive Technology

XVI-1006-  
2023

Final Agenda for the Meeting of Commission XVI

76<sup>th</sup> International Institute of Welding Annual Assembly  
Singapore  
July 16-20, 2023

Author: Dr. D. Grewell (Chairman)

Tuesday, July 18<sup>th</sup>, 2023, 14:00 – 18:50

1. Opening and welcome by the moderator (Prof. Dr. Sergio Amancio, TU Graz, Austria)
  - a. Approval of minutes and agenda
  - b. Vote on 2024 Chair and Vice-Chair (Executed by IIW Secretariat)

14:00 – 14:10

### 3. Papers

**30 min each**

- 2.1. XVI-1001-23: "Optimization of additively manufactured plastic components for direct screwing", by Elmer Moritzer, University of Paderborn

14:10 – 14:40

- 2.2. XVI-1002-23 "Evaluation of the effects of different heating strategies on the joining partners during infrared welding of black polyamides" by Karina Gevers, University of Paderborn

14:40 – 15:10

- 2.3. XVI-1003-23 "Optimization of ultrasonic joining parameters of additively-manufactured Ti-6Al-4V and 20% short-carbon-fiber reinforced PEEK hybrid joints", Willian Carvalho, Graz University of Technology

15:10 – 15:40

- 2.4 XVI-1004-23 "Anvil-free ultrasonic welding for welding situations with one-sided access", by Theresa Arndt, University of Paderborn

15:40 – 16:10

Coffee break

16:10 – 16:30



- Report of the “Welding in the World” editor (Prof. Thomas Kannengiesser)  
16:30 – 16:45
- 2.5 XVI-1005-23 “Behaviour of Adhesives in strong alkaline environments for the use in hydrogen production”, by Maximilian Heym, RWTH Aachen  
16:45 – 17:15
- 2.6. XVI-1006-23: “Feasibility analysis for the application of conductive tracks on textiles by means of laser radiation”, By Friederike Brackman, Fraunhofer-Institut für Lasertechnik ILT  
17:15 – 17:45
- 2.7 XVI-1007-23 “Development of a laser-based metal-polymer joint with prescribed opening forces”, by Christoph Wortmann, Fraunhofer-Institut für Lasertechnik ILT  
17:45 – 18:15
- 3.0 Elisabetta Sciacaluga, Luca Costa  
18:15 – 18:30
- 4.0 XVI Business meeting  
Approve papers for publication in WiTW  
18:30– 18:50