

Laser Processing of Non-metals

From Fundamentals to Applications

March 18 –19, 2026
Fraunhofer IWS | Dresden

PROGRAM*

Wednesday, March 18, 2026

12:00–13:00 (CET)	Welcome Desk and Fingerfood
13:00–13:15	Opening and Introduction
13:15–13:45	Insights in Lightweight Construction *Niels Modler* | *TU Dresden*
13:45–17:15	**Session 1: Ablation and Cutting**
13:45–14:05	Selective Ablation of Lacquered/Coated 3D Plastic Parts *Thorsten Föcking* | *Datronik*
14:05–14:25	Continuous Cutting of Airbag Fabric with Superposed Axes Systems *Karsten Zenger* | *Held Systems*
14:45–15:05	Cutting Stone with Light: Laser Processing for Nuclear Decommissioning *Madlen Borkmann* | *Fraunhofer IWS*
15:05–15:35	Coffee Break
15:35–15:55	Customized Control Solution for Non-metal Processing *Peter Rauscher* | *Fraunhofer IWS*
15:55–16:15	Laser Processes for Functional Glass Products – Applications in Mobility and Construction *Shubham Dhar Dwivedi* | *Saint-Gobain*
16:15–16:35	High-power CO_2 Laser Processing of Fiber-based and Cellulose Packaging for Sustainable Manufacturing *Chiara Clementi* | *El.En.*
16:35–16:55	Sustainable Laser Processing of Wood *Jan Hauptmann* | *Fraunhofer IWS*
16:55–17:15	Laser-Induced Breakdown Spectroscopy for the Selective Material Removal of Glass Fiber Reinforced Thermoplastics *Daniel Haschock* | *TU Dresden*
17:15–17:30	Short Break
17:30–18:40	**Lab Tour @Fraunhofer IWS**
18:40–21:00	**Dinner and Networking**
21:00	End of Day 1

*as of March 16, 2026 | subject to changes



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Thursday, March 19, 2026

08:30–09:00 (CET)	Welcome Desk and Coffee
09:00–11:50	**Session 2: Joining and Surface Modification**
09:00–09:20	Potential Applications Laser Technologies for Manufacturing of Large Thermoplastic Aerospace Components *Alexey Vichniakov* | *Airbus*
09:20–09:40	Gluing without Glue – Laser-based Joining of Paper *Volker Franke* | *Fraunhofer IWS*
09:40–10:00	Multi-material Design for Lightweight Structures *Daniel Wohlfahrt* | *TU Dresden*
10:00–10:20	Thermal Direct Joining of Polymer-metal Hybrids *Annett Klotzbach* | *enabling connections*
10:20–10:50	Coffee Break
10:50–11:10	Laser Structuring and Thermal Spraying: Enhancing Functionality of Non-metallic Parts *Stefan Scheitz* | *Fraunhofer IWS*
11:10–11:30	Laser-based Manufacturing of Components and Beyond *Simon Britten* | *Laserline*
11:30–11:50	Using a 2D Laser Scanning Setup in Automatic Tape Layout Process for Improved Robustness *Clovis Alleaume* | *AIMEN*
11:50–12:00	Closing Remarks
12:00–13:30	Networking and Lunch
13:30	End of the Event

*as of March 10, 2026 | subject to changes