

**13<sup>th</sup> Int. Summer School “Trends and New Developments in Laser Technology”  
August 26 – August 30, 2023 | Dresden**

**PROGRAM OVERVIEW**

	MON, Aug 26	TUE, Aug 27	WED, Aug 28	THU, Aug 29	FRI, Aug 30
<b>Morning</b>		Expert Talks	Expert Talks	Expert Talks	Lab Work Part I
		Lunch	Lunch	Lunch	Lunch
<b>Afternoon</b>	Registration & Opening Expert Talks Participant Presentations	Participant Presentations	Sponsor Presentations Participant Presentations	Expert Talks Lab Tour at Fraunhofer IWS Delivery of certificates	Lab Work Part II Closing Remarks
<b>Evening</b>		Get Together & Dinner (Dinner Speech “The Future of Laser Processing”)			

**EXPERT TALKS**

- **Introduction to laser processing: the laser beam, a tool for multiple applications**  
Prof. Andrés Lasagni | TU Dresden & Fraunhofer IWS
- **Advances on laser based joining technologies**  
Dr. Axel Jahn | Fraunhofer IWS
- **Recent advances on laser based surface hardening technologies**  
Marko Seifert | Fraunhofer IWS
- **Theoretical approaches towards process design and analysis with application examples from laser material processing**  
Dr. Achim Mahrle | Fraunhofer IWS
- **Laser cutting of thick sheet materials**  
Dr. Patrick Herwig | Fraunhofer IWS
- **Laser-induced Forward Transfer (LIFT) of metallic 3D micro-structures**  
Prof. G.R.B.E. Römer | University of Twente, Netherlands
- **High-throughput machining using high-average power ultrashort pulse lasers and high-speed polygon scanner**  
Dr. Joerg Schille | University of Applied Science Mittweida
- **Recent developments and applications of ultrashort pulse-lasers**  
Dr. Felix Dreisow | Schott Technical Glass Solutions GmbH, Jena
- **Fabrication of 3D parts using Additive Manufacturing**  
Prof. Frank Brückner | Fraunhofer IWS
- **Laser interference patterning: past, present and future for large area surface functionalization**  
Prof. Andrés Lasagni | TU Dresden & Fraunhofer IWS
- **Laser safety**  
Dr. Robert Baumann | TU Dresden