



# High-Power Ultrafast LaSers using Tapered Double-Clad Fiber

High-power ultrafast laser processing workshop.

22<sup>nd</sup> March 2024

0900-1400 CET

Join the PULSE project team to see and learn more about progress in high-power fiber lasers and their applications.

## Programme:

### The PULSE project:

**0900: Concepts for high-power ultrafast fiber lasers** – *Regina Gumenyuk (Tampere University)*

**0930: New high-power fiber amplifiers** – *Valery Filippov (Ampliconix)*

**1010: Coherent beam combining** – *Hossein Fathi (Tampere University)*

**1040: Seed lasers for GHz rep rates** – *Edik Rafailov (Aston University)*

**1055: Optical elements for high-power systems** – *Maria Farsari (FORTH)*

**1130: High-speed scanning to harness the power of laser ablation** – *Marcel Wolf (Laser Institute Mittweida)*

**1240: High-power versatile laser processing machines** – *Oliver Steffens (Lunovu GmbH)*

### Applications

**1320: Laser ablation cutting** – *Oliver Steffens (Lunovu GmbH)*

**1330: Laser welding** – *Elias Hontzopoulos (10 min)*

**1340 Laser-engraving of automotive injection moulds** – *Nello LiPira (Stellantis)*

**The Project**  
The PULSE project:

**High-power ultrafast fiber laser:**  
kW Range  
GHz rep rates

Laser systems for new possibilities in laser cutting, welding and engraving.

Ablation cutting of metals.  
Welding of solar thermal absorbers  
Precision engraving of injection moulds

**Attendance:**  
Free-of-charge

**Registration:**  
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