



High-Power Ultrafast LaSers using Tapered Double-Clad Fiber

High-power ultrafast laser processing workshop.

22nd March 2024

0900-1200 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 USP 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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