



High-Power Ultrafast LaSers using Tapered Double-Clad Fiber

High-power ultrafast laser processing workshop.

22nd 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 (Ampliconyx)

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

1040: Flexible multi-repetition rate amplification – Regina Gumenyuk (Tampere University)

1055: Seed lasers for GHz rep rates – Edik Rafailov (Aston University)

10 min Break

1125: Fiber seed lasers – Regina Gumenyuk (Tampere University)

1140: Solid core all-glass delivery fiber - Vasilli Ustimchik (Ampliconyx)

1155: Optical elements for high-power systems – Maria Farsari (FORTH)

1215: High-speed scanning to harness the power of laser ablation – Marcel Wolf (Laser Institute Mittweida)

1245: High-power versatile laser processing machines – Oliver Steffens (Lunovu GmbH)

Applications

1315: Laser welding – Elias Hontzopoulos

1325: 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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