

Working With Laserlab-Europe

Use Our Facilities

Access is offered free of charge, including travel and accommodation, to users from any country. We particularly welcome new users, early-career researchers and women.

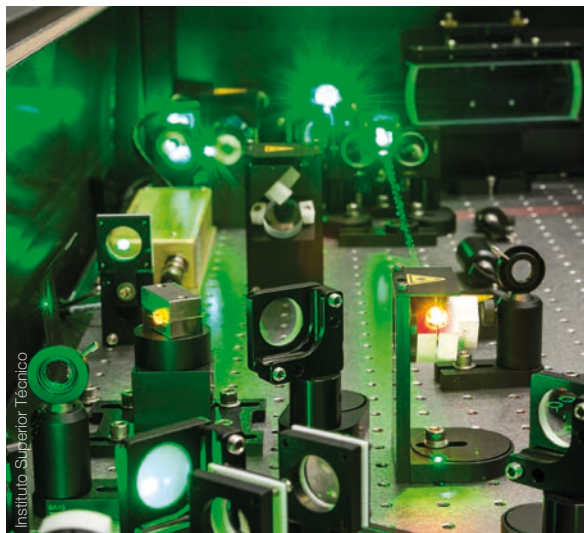
Participate in Training Programmes

Users can experience hands-on training in a variety of specialist lab techniques from across laser research.

Industrial Collaboration

Services to industry range from precision manufacturing to characterisation to joint technology development.

To find out more visit www.laserlab-europe.eu



Laserlab-Europe

Laserlab-Europe combines leading institutions in laser research from across Europe. It aims to strengthen Europe's leading role in laser research and push the frontiers of laser research and technology, as well as to promote interdisciplinary cooperation.

Services offered to the laser community

- Training
- Cross-disciplinary and topical workshops
- Industrial collaboration



Contact

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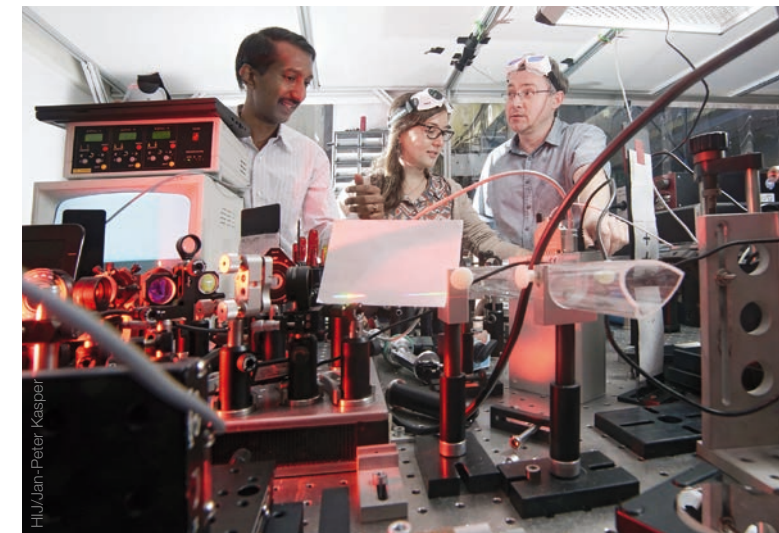
Laserlab-Europe Office

office@laserlab-europe.eu



Laserlab-Europe: Science at your Service

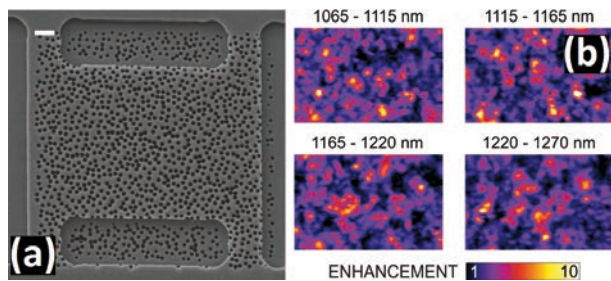
The Network of European Laser Research Infrastructures



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 871124.



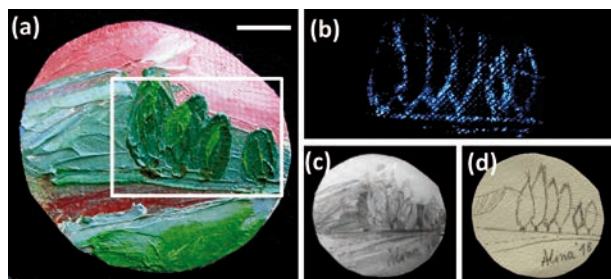
Laser Optics & Imaging Techniques



Adapted from Adv. Mat. 31, 1807274 (2019)

★ Scanning near-field optical microscope image showing (a) electron micrograph of the object, (b) maps of the max. PL enhancement in 4 spectral regions (LENS).

Cultural Heritage & Historical Preservation

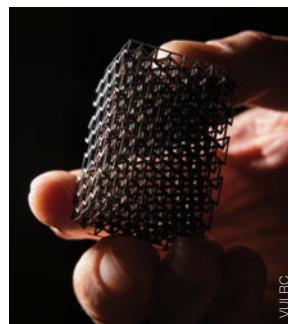


Tserevelakis et al., Sci. Rep. 7, 747 (2017)

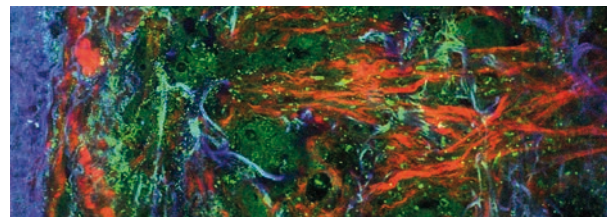
★ Detection of underdrawings in paintings, with the painting (a) and undersketches as viewed (b) with photoacoustic imaging, NIR (c) and brightfield image (d) (FORTH).

Materials Science & Emergent Technologies

★ 3-D laser printed material, with potential uses as a scaffold for biological or mechanical experiments (VULRC).

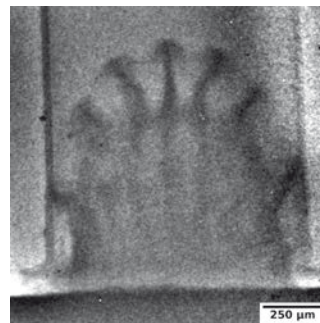


Medicine & Health



★ Multiphoton images of lung tumour tissue (LLAMS).

Physics

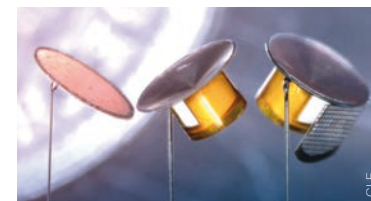


★ X-ray radiograph of a Rayleigh-Taylor unstable system in a decelerating phase (LULI).

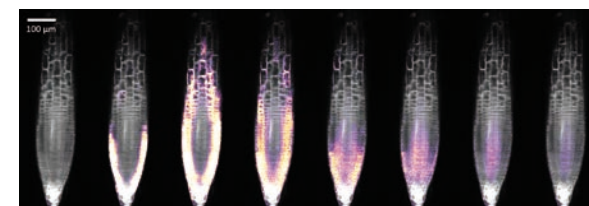


Energy & Environmental Sciences

★ Targets used in laser-plasma interaction experiments to simulate fusion ignition (5 pence coin in the background for scale) (CLF).



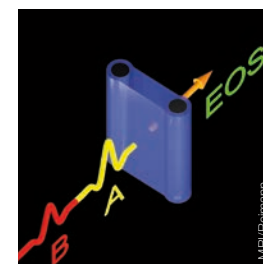
Life Sciences



★ Calcium propagation in the root hair of Arabidopsis thaliana visualized with a Förster Resonance Energy Transfer based Light Sheet Fluorescence Microscope (POLIMI).

Chemistry

★ Schematic of a 2D-THz experiment with phase-locked THz pulses A (excitation) and B (probe) interacting with a water jet in transmission geometry. The non-linear THz signal is measured with a phase-sensitive electrooptic sampling (EOS) detector (MBI).



For more information about our lasers and how to apply for access, please visit: