INVITATION TO THE WORKSHOP

Industrial applications of high-power laser technologies of the Extreme Light Infrastructure (ELI)

24 – 25 May 2018

Za Radnicí 835, Dolní Břežany, Czech Republic

The Extreme-Light-Infrastructure (ELI) is an emerging world-class research infrastructure that will be dedicated to the multidisciplinary research applications of a new generation of lasers delivering sources of ultra-intense high-energy particles and ultra-bright radiations in the femtosecond and attosecond timescales.

Consisting of three complementary facilities located in the Czech Republic (ELI Beamlines), Hungary (ELI-ALPS) and Romania (ELI-NP), ELI is the result of a multi-national effort involving hundreds of scientists from leading international laboratories. The ELI research centres and their technologies are now being commissioned and initial operations will start in the course of 2018.
As a research infrastructure, the mission of ELI will be to give the international scientific community access to its experimental facilities, but also to serve industrial users.

The objective of this workshop will be to explore the potential applications and benefits of ELI for industrial users and discuss the conditions under which ELI will support their proprietary R&D needs.

The registration is free of charge. Please register at indico.eli-beams.eu/event/300/ before 15 May 2018.

elitrans

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HEPTech
European Commission
eli beamlines
eli attosecond
eli nuclear physics

PROGRAMME

Thursday, 24 May 2018

INTRODUCTION		
8:45 – 9:00	**Welcome**	
9:00 – 9:20	**Keynote speech**	Research infrastructures and Industry – what ingredients for a successful relationship? (Prof. Carlo Rizzuto, Chairman of ELI Delivery Consortium)
9:20 – 9:50	**Overview of potential industrial applications of high-power lasers**	(Dr. Ceri Brenner, Senior Application Development Scientist, Central Laser Facility, STFC Rutherford Appleton Laboratory)
9:50 – 10:10	**Conditions of access to ELI laser research facilities for industry users**	Access modes, intellectual property policy, support services (Mr. Aleš Hála, Head of Technology Transfer Office, ELI Beamlines)
10:10 – 10:30	**Case study Sincrotrone Elettra**	Services for industrial clients (Dr. Marco Peloi, Head of Industrial Liaison Office)
10:30 – 11:00	**Coffee break**	
SESSION I		
11:00 – 11:30	**ELI's competitive advantages in the landscape of European light sources**	(Dr. Federico Canova, ELI Delivery Consortium)
11:30 – 12:30	**Panel discussion**	Key areas of industrial applications at ELI • Dr. Georg Korn, Chief Scientific Officer, ELI Beamlines • Prof. Károly Osvay, Research Technology Director, ELI-ALPS • Dr. Dan Gabriel Ghiță, Technical Director, ELI-NP
12:30 – 13:45	**Lunch**	
SESSION II		
13:45 – 15:00	**Panel discussion**	Laser technologies exploitable in industrial R&D
	ELI Beamlines	Exploitation of X-ray imaging techniques generated by lasers in biology, femto-chemistry and material sciences. Advantages for industrial research (Dr. Jakob Andreasson, Leader of molecular, biomedical, and material sciences application group)
	ELI ALPS	How ultrafast laser-driven techniques accelerate solar energy R&D? (Dr. Csaba Janáky, Senior Research Fellow)
	ELI NP	Laser-assisted gamma sources for industrial applications (Dr. Nikolay Djourelov, Research Scientist)
	HiLASE	Superlasers for real world applications in high-tech industry (Dr. Tomáš Mocek, Managing Director)
	BIOCEV IMCF	Optical and electron microscopy (not only) for advanced bioimaging (Dr. Radek Macháň, Senior Scientist)
15:00 – 15:30	**Coffee break**	
15:30 – 17:00	**Site tour at ELI Beamlines**	
19:00 – 22:00	**Dinner (venue: TBC, in Prague)**	

Friday, 25 May 2018

9:00 – 12:00	**Research-to-Business (R2B) meetings**	Participants will have the opportunity to meet individually with ELI experts to discuss their needs and interests.