



## LASERLAB-EUROPE

### The Integrated Initiative of European Laser Research Infrastructures IV

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Work package 6 – Access Management  
and Monitoring Infrastructure-Users Connections

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Fourth annual User Meeting and report

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<i>Deliverable Type</i>	
R = Report DEM = Demonstrator, pilot, prototype, plan designs DEC = Websites, patents filing, press & media actions, videos, etc. OTHER = Software, technical diagram, etc.	R
<i>Dissemination Level</i>	
PU = Public, fully open, e.g. web CO = Confidential, restricted under conditions set out in Model Grant Agreement CI = Classified, information as referred to in Commission Decision 2001/844/EC	PU

## 1 Objectives of WP6

The objectives of this work package are to coordinate the joint transnational access programme of Laserlab-Europe and the common management of the application and selection procedures. In addition, the aim is to monitor and improve, at the consortium level, the quality of services provided to users by the access providing infrastructures, with substantial involvement of User Representatives. Advantage is taken of user feedback to refine the consortium's long-term strategy.

The work packages comprises the supervision of the access management and selection procedures through the Access Board, the organisation of User Meetings, interaction with User Representatives, analysing user feedback and user needs, as well as the analysis of the user community and measures to enlarge the user basis.

## 2 Objectives of the task “User Meetings”

Task leader: Access Board, headed by CEA-SLIC and CNRS-LULI.

Annual User Meetings are organised at the consortium level in order to bring together a significant number of users, facilitating and fostering their exchanges across different disciplines and with the infrastructure operators. They provide a unique opportunity for Users to present their scientific results and to give feedback on Laserlab-Europe's access programme via Round Table discussions, and for the access providers to present recent upgrades, new experimental set-ups or diagnostics. User Meetings are organised by the Access Board and the User Representatives, with each meeting being hosted by one of the access providing facilities.

## 3 Third User Meeting

### *Laserlab-Europe User Meeting 2019, 27-29 October 2019, Coimbra, Portugal*

The Laserlab-Europe annual User Meeting of 2019 was took place in Coimbra, Portugal from 27 to 29 October. It was organised by Luis Arnaut and his team at the access-providing facility Coimbra Laser Lab at the University of Coimbra. The User Representatives actively participated in the planning of the scientific programme and the implementation of the meeting.



About 40 participants attended the three-day meeting, where results of recent transnational access projects performed at different Laserlab-Europe laboratories were presented. The meeting consisted of sessions on 'Structural Dynamics and Biophotonics', 'Materials' and 'High Energy Lasers and Plasma'. 21 presentations on access projects performed in 19 Laserlab-Europe host institutions were given. The users came from laboratories and institutions in Croatia, Denmark, Germany, Italy, Latvia, Poland, Portugal, Spain, Switzerland, and also from institutions outside the European Union in Israel, Turkey, Japan, Canada and the USA.

In addition, three keynote talks were given on 'Infrared-induced chemistry. From conformational changes to bond breaking-bond forming reactions', 'Plasmon hot electron extraction with doped semiconductors for infrared solar energy', and 'Deeper, faster, more specific; new developments in Raman spectroscopy and imaging'.

A round table discussion, organised by the Laserlab-Europe User Representatives and chaired by Jouko Korppi-Tommola from Jyväskylä University, Finland, was held in order to collect feedback from users and to improve and enlarge access to the different Laserlab-Europe facilities. Laserlab-Europe user meetings are excellent occasions to find out about the research done in the different Laserlab facilities and to initiate interdisciplinary exchange.

The participants enjoyed a working dinner in a restaurant in Coimbra, which provided additional occasion for discussions. On the second day, the participants had the opportunity to visit the Coimbra Laser Lab laboratories.

A book of abstracts is available for download at

<https://www.laserlab-europe.eu/events-1/laserlab-events/2019/27-29-october-user-meeting-coimbra>

	Sunday, October 27 <sup>th</sup>
16:00-18:30	Registration – Chemistry Department, Rua Larga
17:00-18:30	<a href="#">Guided visit to the historical part of the university – Porta Férrea, Reitoria Univ. Coimbra</a>
18:30-20:00	<a href="#">Welcome reception – Museu Machado de Castro</a>
	Monday, October 28 <sup>th</sup>
8:30-12:00	Registration
9:00-9:20	Opening addresses
9:20-9:50	The Laserlab-Europe Trans-National Access Activity Pascal D'Oliveira, Chair, Laserlab-Europe Access Board
9:50-10:30	Rui Fausto, Coimbra LaserLab, Portugal <i>"Infrared-induced chemistry. From conformational changes to bond breaking-bond forming reactions"</i>
	Session I – STRUCTURAL DYNAMICS AND BIOPHOTONICS
10:30-10:50	Benjamin Frandsen, University of Copenhagen, Denmark <i>"Selective Conformational Switching of a Substituted Pyrimidine using Ultraviolet Laser Radiation"</i> (project performed at CLL)
10:50-11:20	<a href="#">Coffee break</a>
11:20-11:40	Virginie Lhiaubet-Vallet, Universitat Politècnica de València, Spain <i>"Photochemistry of etheno-derived nucleosides"</i> (project performed at SLIC)
11:40-12:00	Sandra Lang, Ulm University, Germany <i>"Modeling the active centers of catalysts: The unique combination of gas-phase ion trap reactivity and infrared spectroscopy"</i> (project performed at FELIX)
12:00-12:20	Mateo Forjan, Institute of Physics, Croatia <i>"Ultrafast Transient Absorption of Phenolic and Adamantly Compounds"</i> (project performed at POLIMI)
12:20-12:40	Laura Rodríguez, Universitat de Barcelona, Spain <i>"Luminescent Au and Pt organometallic complexes. The effect of heavy atom on the aggregation and the photophysical properties"</i> (project performed at CLL)
12:40-13:00	Ana Cartaxo, iBET, Portugal <i>"AbTME: Interactions between anti-cancer antibodies (Ab) and the tumour micro-environment (TME)"</i> (project performed at ICFO)
13:00-14:30	<a href="#">Lunch</a>
14:30-15:00	Francesco Scotognella, POLIMI, Italy – ERC-CoG presentation <i>"Plasmon hot electron extraction with doped semiconductors for infrared solar energy"</i>
	Session II – MATERIALS
15:00-15:20	Supriya Ghosh, Jacobs University Bremen, Germany <i>"Temperature Dependent Emission Linewidth Broadening of Perovskite Nanocrystals, Microcrystals and Thin Films"</i> (project performed at LLC)
15:20-15:40	Matthias Hengsberger, University of Zurich, Switzerland <i>"Electron transfer across a semiconductor-molecule interface – time-resolved photoemission at ARTEMIS"</i> (project performed at CLF)
15:40-16:00	Christian Peltz, University of Rostock, Germany <i>"Time-resolved imaging of structural and charging dynamics"</i> (project performed at FERMI)
16:00-16:30	<a href="#">Coffee break</a>

16:30-16:50	Lucas Caretta, Massachusetts Institute of Technology (MIT), USA <i>"All-Optical Motion of Chiral Domain Walls and Skyrmion Bubbles"</i> (project performed at MBI)
16:50-17:10	Shaked Rozen, Weizmann Institute of Science, Israel <i>"Controlling sub-cycle instantaneous optical chirality in the photoionization of chiral molecules"</i> (project performed at CELIA)
17:10-17:30	Reinis Lazda, University of Latvia, Laser Centre <i>"Creation of high concentrations of NV centres in synthetic diamond through femtosecond laser writing"</i> (project performed at VULCR)
17:30-17:50	Banu Sezer, NANOSENS Ileri Teknolojiler Enerji Makina Proje Tasarim Danismanlik A.S., Turkey <i>"Laser Induced Breakdown Spectroscopy (LIBS) in Food Quality Control: Determination of Protein Content in Cereals"</i> (project performed at LP3)
17:50-18:10	Wendell Hill, University of Maryland, USA <i>"Towards an in situ, full-power gauge of the focal-volume intensity"</i> (project performed at CLPU)
18:10-19:00	The Roadmap of LaserLab Portugal and visit to CLL
20:00	Social dinner
	Tuesday, October 29 <sup>th</sup>
9:00-9:40	Freek Ariese, LaserLaB Amsterdam, Netherlands <i>"Deeper, faster, more specific; new developments in Raman spectroscopy and imaging"</i>
	Session III – HIGH-ENERGY LASERS AND PLASMA
9:40-10:00	Marcin Rosinski, Institute of Plasma Physics and Laser Microfusion (IPPLM), Poland <i>"Comprehensive investigations of parameters and emission of electrons and ions in a magnetized plasma created from different target constructions at PALS experiment, with use of femtosecond complex-interferometry"</i> (project performed at PALS)
10:00-10:20	Yuji Fukuda, Kansai Photon Science Institute (KPSI), National Institutes for Quantum and Radiological Science and Technology (QST), Japan <i>"Investigation of self-generated magnetic fields in laser plasma accelerator using a new concept of compact polarimeter"</i> (project performed at LOA)
10:20-10:40	Patrizio Antici, INRS, Canada <i>"Pigment darkening as case study of In-Air Plasma-Induced Luminescence for Material Science"</i> (project performed at FORTH)
10:40-11:10	Coffee break
11:10-11:30	Dan Levy, Weizmann Institute of Science, Israel <i>"Simultaneous measurement of electron, proton and high harmonics emission from solid target interacting with a few-cycle ultraintense pulse"</i> (project performed at LOA) <i>"Gas-foil target for ion acceleration"</i> (project performed at HZDR)
11:30-11:50	Antonino Picciotto, Fondazione Bruno Kessler, Italy <i>"Preliminary Results on Laser Driven Ion Implantation Experiments at HiLASE"</i> (project performed at HiLASE)
11:50-12:10	Pascal Boller, TU Darmstadt, Germany <i>"On-line detection of radioactive fission isotopes following laser-accelerated proton induced fission of <sup>238</sup>U"</i> (project performed at PHELIX)
12:10-13:15	Round Table and LaserLab V
13:15-14:30	Lunch