



## LASERLAB-EUROPE

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

**Grant Agreement number: 654148**

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

Deliverable D6.3  
Third annual User Meeting and report

Lead Beneficiary: 4 – CNRS

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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 Second User Meeting

### ***Laserlab-Europe User Meeting 2018, 29-30 November 2018, Paris, France***

The Laserlab-Europe annual User Meeting of 2018 was took place in Paris, France on 29 and 30 November. It was organised by Sylvie Jacquemot and her team at the access-providing laboratory LULI. The User Representatives actively participated in the planning of the scientific programme and the implementation of the meeting.

About 40 participants attended the two-day meeting, where results of recent transnational access projects performed at different Laserlab-Europe laboratories were presented. The meeting consisted of sessions on 'Imaging techniques & Technologies', 'Life-oriented research', 'Atomic – Molecular Physics & Chemistry', 'Condensed matter' and 'Plasma physics'. 23 presentations on access projects performed in 17 Laserlab host institutions were given. The users came from laboratories and institutions in Belgium, the Czech Republic, Estonia, France, Germany, Italy, Spain, Switzerland, UK and also from institutions outside Europe in Canada and Russia.

A round table discussion, organised by the Laserlab-Europe User Representatives and chaired by Rosa Weigand from Complutense University of Madrid, Spain, was held in order to collect feedback from users and to improve and enlarge access to the different Laserlab-Europe facilities. Laserlab 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 Paris, which provided additional occasion for discussions. On the day before the meeting, the participants had the opportunity to visit the APOLLON and ATTOLAB laser facilities on the Plateau de Saclay.



Participants of the User Meeting at the Campus Jussieu of the University Pierre et Marie Curie in Paris

A book of abstracts is available for download at

<https://www.laserlab-europe.eu/events-1/laserlab-events/2018/29-30-november-user-meeting-paris>

<b>28 November 2018</b>	
14:30-17:00	Tour of the APOLLON and ATTOLAB laser facilities (from/to Massy-Palaiseau RER station)
<b>29 November</b> – Charpak amphitheater, Jussieu campus, Sorbonne university	
09:30-09:40	Welcome addresses Astrid Lambrecht, Director of the CNRS Institute of Physics (tbc)
09:40-10:10	The Laserlab-Europe TransNational Access Activity Didier Normand, Chair, Laserlab-Europe Access Board
<b>Session I: <i>Imaging techniques &amp; Technologies I</i></b> Chair: Rosa Weigand, Universidad Complutense, Spain	
10:10-10:30	Karel Zidek, TOPTEC, IPP, Czech Republic <i>“Compressive Imaging of Transient Absorption Dynamics on the Femtosecond Timescale”</i> (project performed at LLC)
10:30-10:50	Yannick Deshayes, Laboratoire de l'Intégration du Matériau au Système, France <i>“Packaging-induced stress analysis in high-power DFB laser diode at 975nm”</i> (project performed at MBI)
10:50-11:20	<i>Coffee Break</i>
11:20-11:40	Xavier Ropagnol, INRS-EMT, Canada <i>“Sub-terahertz radiation from large aperture photoconductive antennas excited from UV laser beam”</i> (project performed at DP-USZ)
11:40-12:00	Frank Rosmej, LULI, France <i>“The transition from discrete to continuous spectra in dense media: two channel high-resolution X-ray imaging of Rydberg-transitions”</i> (project performed at PALS)
12:00-13:00	<i>Round table</i>
13:00-14:20	<i>Lunch</i>
<b>Session II: <i>Life-oriented research</i></b> Chair: Alfred Maquet, LCPMR, France	
14:20-14:40	Carlo Altucci, Università "Federico II" of Napoli, Italy <i>“Time-resolved study of the laser mediated interactions between specially designed model system peptides”</i> (project performed at LIDYL/SLIC)
14:40-15:00	Daniela Täuber, Leibniz Institute of Photonic Technology, Germany <i>“Imaging nanoscale aggregation of proteins ex vivo using the contrast in Förster resonance energy transfer obtained from 2D polarization fluorescence imaging (2D POLIM)”</i> (project performed at LLC)
15:00-15:20	Kris Vissenberg, University of Antwerp, Belgium <i>“Regulation of root hair growth in the model plant Arabidopsis thaliana”</i> (project performed at CUSBO)
15:20-15:40	Tim Schäfer, University of Göttingen, Germany <i>“Photoelectron circular dichroism of fenchone from multiphoton ionization with nanosecond laser pulses”</i> (project performed at ULF-FORTH)
15:40-16:20	<i>Coffee Break</i>
<b>Session III: <i>Condensed matter</i></b> Chair: Helder Crespo, University of Porto, Portugal	
16:20-16:40	Manuel de Anda Villa, Institut des NanoSciences de Paris (INSP), France <i>“Ultrafast structural dynamics probed by photoelectron spectroscopy”</i> (project performed at CELIA)
16:40-17:00	Dmitry Spasskiy, Skobeltsyn Institute of Nuclear Physics, Lomonosov Moscow State University, Russia <i>“Non-linear effect of the interaction of the self-trapped excitons under dense laser excitation in molybdates”</i> (project performed at CELIA)
17:00-17:20	Davide Bossini, Technical University of Dortmund, Germany <i>“Ultrafast manipulations of high-energy spin excitations”</i> (project performed at CUSBO)

17:20-17:40	Vitali Nagirnyi, Institute of Physics, University of Tartu, Estonia <i>“Cooperative luminescence of Yb pairs in Li6Y(BO3)3 single crystals”</i> (project performed at VULRC)
16:20-17:40	Laserlab Access Board Meeting (in parallel, LULI meeting room)
19:00	Meeting Dinner
<b>30 November</b> – Charpak amphitheater, Jussieu campus, Sorbonne university	
	<b>Session IV: Atomic - Molecular Physics &amp; Chemistry</b> Chair: Oldrich Renner, Institute of Physics, Czech Republic
9:30-09:50	Patrick Dupré, Laboratoire de Physico-Chimie de l’Atmosphère, France <i>“Sensitive Sub-Doppler Metrology in Cavity: from C2H2 to HD”</i> (project performed at LLAMS)
09:50-10:10	Arne Senftleben, University of Kassel, Germany <i>“Photoelectron circular dichroism and laser-induced electron diffraction of chiral fenchone molecules”</i> (project performed at ICFO)
10:10-10:30	Devendra Mani, University of Bochum, Germany <i>“Dissociation of HCl at 0.4 K: Sequence Matters”</i> (project performed at FELIX)
10:30-10:50	Caterina Vozi, CNR-IFN, Italy <i>“Time resolved photoelectron circular dichroism”</i> (project performed at FERMI)
10:50-11:20	Coffee Break
	<b>Session V: Imaging techniques &amp; Technologies II</b> Chair: Jouko Korppi-Tommola, University Jyväskylä, Finland
11:20-11:40	Aleksei Murzanev, IAP RAS, Russia <i>“Measurements of fluence profile and plasma density in femtosecond laser filaments and superfilament in ambient air under different convergence of terawatt laser pulses”</i> (project performed at HIJ-FSU)
11:40-12:00	Milutin Kovacev, Leibniz University Hannover, Germany <i>“Nanoscale lensless stereo imaging using dual coherent soft X-ray beams”</i> (project performed at LIDYL/SLIC)
12:00-12:20	Mabel Ruiz-Lopez, DESY, Germany <i>“Schwarzschild objective alignment by means of wavefront diagnosis”</i> (project performed at LOA)
12:20-12:40	Michael Zuerch, University of Jena, Germany <i>“Single Shot XUV Nanoimaging Using an Intense Femtosecond Soft X-ray Laser”</i> (project performed at LOA)
12:40-14:00	Lunch
	<b>Session VI: Plasma physics</b> Chair: Valdas Sirutkaitis, VULRC, Lithuania
14:00-14:20	Ross Gray, University of Strathclyde, UK <i>“Intense laser-energy coupling and partition in the transition to relativistically transparent laser-plasmas”</i> (project performed at GSI)
14:20-14:40	Francesco Barbato, Swiss Federal Laboratory for Materials & Technology, Switzerland <i>“Quantitative X-ray Phase Contrast Imaging of a laser driven shock wave”</i> (project performed at GSI)
14:40-15:00	Luca Volpe, Centro de Láseres Pulsados (CLPU), Spain <i>“Enhanced relativistic-electron beam collimation using two consecutive laser pulses”</i> (project performed at LULI)
15:00-15:20	Closing remarks