

Laserlab-Europe Conference

27-29 May 2024 in Lisbon, Portugal



Venue

[Centro de Congressos do IST](#)

Instituto Superior Técnico, Campus Alameda

Av. Rovisco Pais, 1, 1049-001 Lisbon

Agenda

27 May	28 May	29 May
08:30-10:00 Access Board Meeting <i>(Internal event)</i>	09:00-11:10 Session 3: Lasers in a multi-instrumental world	09:00-10:30 Session 5: Lasers and laser-based instruments for the future
10:00-12:25 Session 1: Lasers for Catalysis	11:40-13:30 Session 4a: Lasers for oncology	11:00-15:30 Laserlab-Europe AISBL General Assembly <i>(Internal event)</i>
14:00-17:20 Session 2: Attoscience	14:30-17:30 Session 4b: Lasers for Imaging & Diagnosing Life	
17:30-18:30 Public Lecture by Anne L'Huillier (Lund University)	17:30 City Tour	16:00 Lab Tour at IST
19:30 Working Dinner <i>(Internal event)</i>		

27 May

08:30-10:00	<i>Access Board Meeting (internal event)</i>
10:00-10:15	Welcome by Luis Silva (President of the School Council of IST) and Sylvie Jacquemot (Laserlab-Europe Project Coordinator)
10:15-12:25	Session 1: Lasers for catalysis <ul style="list-style-type: none">- Introduction by Marius Horch (FU Berlin)- Photocatalytic hydrogen generation and CO₂ reduction using inorganic and organic photosensitisers. Using time resolved spectroscopy to aid in identifying the intermediates in the photocatalytic processes, Mary Pryce (Dublin City University)- Light-induced catalysis using plasmonic metal nanoparticles, Sven Askes (Vrije Universiteit Amsterdam)- Catalysis in the light of lasers, Johan Zetterberg (Lund Laser Center)- Unveiling key intermediates in organocatalyzed reactions by IR ion spectroscopy, Davide Corinti (Sapienza Università di Roma)- Discussion
12:25-14:00	<i>Lunch</i>
14:00-17:20	Session 2: Attoscience <ul style="list-style-type: none">- Introduction by Marc Vrakking (Max Born Institute)- Capturing coherent electron dynamics in chiral molecules, Vincent Wanie (DESY)- Controlling high order harmonic focusing properties: spatial shaping to reduce XUV chromatic aberrations, Eric Constant (Institut Lumière Matière)- Attosecond soft X-ray spectroscopy for studying many-body dynamics in condensed matter systems, Themistoklis Sidiropoulos (ICFO, Max Born Institute)
15:10-15:40	<i>Coffee Break</i> <ul style="list-style-type: none">- Control of high harmonic XUV source wavefront, Amelle Zair (King's College London)- Towards a standard for laser pulse compressibility, Fabio Giambruno (Sphere Ultrafast Photonics)- All-attosecond transient absorption spectroscopy using HHG, Bernd Schuette (Max Born Institute)- Discussion
17:20-17:30	<i>Break</i>
17:30-18:30	Public lecture "The route to attosecond pulses" by Anne L'Huillier (Lund University) moderated by John Collier (Laserlab-Europe)
19:30	<i>Project internal Working Dinner</i>

28 May

09:00-11:10	<p>Session 3: Lasers in a multi-instrumental world</p> <ul style="list-style-type: none"> - Introduction by Daniela Stozno (Laserlab-Europe) - ReMade@ARI: Tailor-made Access Routes for Advancing Materials Development for a Circular Economy, Barbara Schramm (HZDR) - RIANA: Research Infrastructure Access in NANoscience & nanotechnology, Michael E. Stuckelberger (DESY) - Lasers4EU: A multi-faceted approach for demand-driven fundamental and applied research, Sylvie Jacquemot (LULI) - Recent developments in the applications of X-ray Free Electron Lasers, Majed Chergui (EPFL, Elettra Sincrotrone Trieste) - Discussion
11:10-11:40	<i>Coffee Break</i>
11:40-13:30	<p>Session 4a: Lasers for oncology</p> <ul style="list-style-type: none"> - Introduction by Dino Jaroszynski (University of Strathclyde) - Delineation of gastrointestinal tumour biopsies using a fibre-based autofluorescence lifetime imaging probe, Riccardo Cicchi (LENS) - Laser-driven, very-high energy, electrons (VHEE): a versatile tool for radiation biology, Alessandro Flacco (LOA) - Preliminary results of radiobiology experiments by laser driven ionizing radiation beams, Emília Rita Szabó (ELI ALPS) - Discussion
13:30-14:30	<i>Lunch</i>
14:30-17:30	<p>Session 4b: Lasers for imaging & diagnosing life</p> <ul style="list-style-type: none"> - Introduction by Luis Arnaut (Coimbra Laser Lab) - Photo(opto)-acoustic imaging and sensing in time and frequency domain for Life Sciences, Giannis Zacharakis (IESL-FORTH) - Femtosecond pulses for Pathology, Frank van Mourik (Flash Pathology) - Developing Photoactive Transition Metal Complexes Towards DNA Targeted Diagnostics and Therapeutics, Susan Quinn (University College Dublin)
15:40-16:10	<p><i>Coffee Break</i></p> <ul style="list-style-type: none"> - Optical Photothermal infrared imaging using free electron laser as pump source, Christoph Krafft (Leibniz IPHT) - Immuno-OCT: Structural and molecular sensitive imaging in vivo at unprecedented resolution, Johannes F. de Boer (Vrije Universiteit Amsterdam) - Discussion
17:30	<i>City Tour</i>

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29 May

09:00-10:30	Session 5: Lasers and laser-based instruments for the future <ul style="list-style-type: none">- Introduction by Sébastien Le Pape (LULI)- Laser Drivers for Inertial Confinement Fusion, Mariastefania De Vido (Central Laser Facility)- Manipulation of laser-based secondary sources for enhanced EUV and x-rays, Marta Fajardo (Instituto Superior Técnico)- Discussion
10:30-11:00	<i>Coffee Break</i>
11:00-15:30	Laserlab-Europe AISBL General Assembly (internal event) <i>The agenda has been distributed separately to members of the Laserlab-Europe AISBL</i>
13:00-14:00	<i>Lunch</i>
16:00-17:00	Lab Tour at Instituto Superior Técnico (IST)