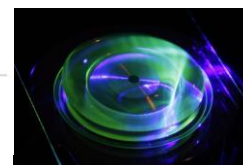




Laserlab Europe

The "Integrated Initiative" of European Laser Infrastructures  
in the 7<sup>th</sup> Framework Programme of the European Union



## Laserlab Europe User Community Training the Regional Eastern-Europe Training School for Potential Users

featuring

### Workshop on Light-Based Technologies

Trnava, 02-04 September 2015  
(held at UCM, nam. J Herdu, Trnava)



Organized by:



MINISTERSTVO ŠKOLSTVA,  
VEDY, VÝSKUMU A ŠPORTU  
SLOVENSKEJ REPUBLIKY



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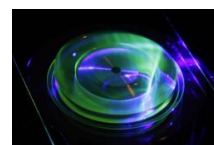
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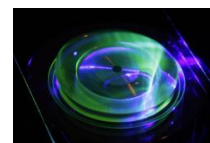
## Workshop on Light-based technologies

Day 1, September 2	
8:00 – 9:00	<b>Registration (UCM)</b>
9:00 – 9:10	<b>Workshop Opening</b> Representative of the dean of Faculty of Natural Sciences, UCM Trnava
9:10 – 9:40	<b>Laserlab Europe overview - concepts and working modes</b> <b>Dusan Chorvat</b> , ILC Bratislava and Laserlab Europe
9:40 – 10:10	<b>Introduction to Light-Based Technologies</b> <b>Alzbeta Marcek Chorvatova</b> , ILC Bratislava and UCM Trnava
<b>Block I.</b>	<b>INTRODUCTION TO SPECTROSCOPY AND IMAGING</b>
10:10 – 11:10	<b>Modern Spectroscopy Techniques</b> <b>Ernest Beinrohr</b> , UCM Trnava
11:10 – 11:30	<i>Coffee break</i>
11:30 – 12:30	<b>PLENARY - Time Domain Diffuse Optical Imaging and Spectroscopy</b> <b>Antonio Pifferi</b> , Politecnico di Milano, Italy
12:30 – 13:30	<i>Lunch</i>
13:30 – 14:15	<b>Applications of polarization imaging to probe extreme micro plasmas and XUV imaging to probe plasma printed structures</b> <b>Subhendu Kahaly</b> , ELI-ALPS, Szeged, Hungary
<b>Block II.</b>	<b>STUDY OF BIOMOLECULES AND THEIR ENVIRONMENT</b>
14:15 – 15:15	<b>Time-resolution: about benefits of adding a new dimension</b> <b>Christoph Biskup</b> , University of Jena, Germany
15:15 – 15:30	<i>Coffee break</i>
15:30 – 16:30	<b>PLENARY - Time-resolved fluorescence and its applications in the study of biomolecular environment</b> <b>Geza Groma</b> , Institute of Biophysics, Biological Research Centre, Szeged, Hungary
<b>Parallel Session I</b>	<b>SCIENTIFIC PUBLISHING AND GRANT PREPARATION</b>
16:30 – 17:30	<b>Academic writing: Research study protocol preparation</b> <b>Ljuba Bacharova</b> , ILC Bratislava
17:30 – 22:00	<i>Organized visit of Trnava and its environments, includes dinner</i>



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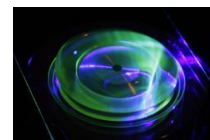
## Workshop on Light-based technologies

Day 2, September 3	
<b>Block III.</b>	<b>MICRO AND NANO-STRUCTURED OPTICAL SENSORS, THEIR DESIGN AND APPLICATIONS</b>
9:00 – 10:00	<b>Pulsed Laser Deposition – this film growth for sensor applications</b> <b>Jaroslav Bruncko, ILC Bratislava</b>
10:00 – 11:00	<b>PLENARY – Photonic crystals in nature, technology and devices</b> <b>Dusan Pudis, University of Zilina</b>
11:00 – 11:20	<i>Coffee break</i>
<b>Block IV.</b>	<b>BIOACTIVE POLYMERIC AND PHOTOTUNABLE MATERIALS</b>
11:20 – 12:20	<b>PLENARY – Latest advancement in bioactive polymeric materials and their applications in the biomedical field.</b> <b>Emo Chiellini, University of Pisa, Italy</b>
12:20 – 13:30	<i>Lunch</i>
13:30 – 14:30	<b>Phototunable magnetic materials</b> <b>Ivan Salitros, Slovak Technical University, Bratislava</b>
<b>Technical Block I</b>	<b>HANDS ON USER TRAINING</b>
14:30 – 14:45	TECHNICAL PROGRAM - company presentations : <b>Carl Zeiss, Jena</b>
14:45 – 15:00	TECHNICAL PROGRAM - company presentations : <b>Kvant, s.r.o.</b>
15:00 – 18:00	<b>Hands-on user training, 5 stands:</b> <ol style="list-style-type: none"> <li><b>1. Zeiss:</b> Advanced imaging,</li> <li><b>2. ILC:</b> Time-resolved measurements,</li> <li><b>3. Kvant:</b> Light spectrometry,</li> <li><b>4. SiProgs:</b> 3D printing,</li> <li><b>5. Academic writing :</b> research study protocol preparation, academic writing skills</li> </ol>
15:45 – 16.15	<i>Coffee available</i>
<b>Parallel Session II</b>	<b>CAREERS IN LIGHT-BASED TECHNOLOGIES</b>
18:00 – 19:00	<b>Careers in light-based technologies: EU opportunities, SPIE, etc.</b> <b>Maria Buciova, national contact point for Horizon 2020, CVTISR</b> <b>Round table with speakers</b>
19:00 – 22:00	<i>Conference Dinner (at UCM)</i>



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## Workshop on Light-based technologies

Day 3, September 4	
<b>Block V.</b>	<b>BIOPOLYMERS AND 3D VISUALIZATION</b>
9:00 – 10:00	PLENARY - Laser Fabrication of 3D Polymeric Micro/Nanostructures in photopolymers and glass. <b>Vytautas Purlys</b> , Vilnius University, Lithuania
10:00 – 11:00	Biodegradable Polymers as Scaffolds for Tissue Engineering <b>Dusan Bakos</b> , Slovak Technical University, Bratislava
11:00 – 11:20	Coffee break
11:20 – 12:20	3D visualization and model creation <b>Anton Mateasik</b> , ILC Bratislava
12:20 – 13:30	Lunch
<b>Technical Block II</b>	<b>HANDS ON USER TRAINING</b>
13:30 – 15:30	Hands-on user training: 5 stands: <ol style="list-style-type: none"> <li>1. Zeiss: Advanced imaging,</li> <li>2. ILC: Time-resolved measurements,</li> <li>3. Kvant: Light spectrometry,</li> <li>4. SiProgs:3D printing,</li> <li>5. Academic writing : research study protocol preparation, academic writing skills</li> </ol>
15:30 – 16:00	Coffee available
<b>Parallel Session III</b>	<b>PANEL DISCUSSION</b>
15:30 – 16:30	Panel discussion: Year of Light 2015 activities, application for Laserlab facilities
16:30 - 16:45	<i>Distribution of Certificates of Attendance</i> Training school summary and closing remarks
17:00 – 20:00	Training School Party (visit to Medieval festival in town)