

**APPOLO Summer School on Ultra-short Pulse Lasers Applications in Material Processing 2019 Students Oral Presentations Programme**

|              | <b>July 8</b>  | <b>July 9</b>  | <b>July 10</b>  |
|--------------|--|--|---|
| <b>Time:</b> | <b>Session 1</b>   | <b>Session 3</b>   | <b>Session 5</b>  |
| <b>12:30</b> | <p>Balys Momgaudis<br/><i>Vilnius University, Laser Research Center, Lithuania</i></p> <p><b>Experimental assessment of absorbed pulse energy via time resolved digital holography</b></p>                             | <p>José Queiroz<br/><i>Vilnius University, Laser Research Center, Lithuania</i></p> <p><b>Direct laser writing 3D nanolithography local temperature study</b></p>  | <p>Vytautas Vosylius<br/><i>Center for Physical Sciences and Technology, Lithuania</i></p> <p><b>Laser-assisted formation of electro-conductive circuit traces on free form dielectric surface by electroless metal plating technique</b></p> |
| <b>12:42</b> | <p>Slava Vanyukov<br/><i>University of Eastern Finland, Finland</i></p> <p><b>Processing of dielectric materials with femtosecond laser pulse</b></p>  | <p>Paul Alexander Suermann<br/><i>Fraunhofer IWS - Institute for Material and Beam Technology, Germany</i></p> <p><b>Direct Laser Interference Patterning of transparent materials through backside dry etching</b></p>  | <p>Edvinas Aleksandravičius<br/><i>Vilnius University, Laser Research Center, Lithuania</i></p> <p><b>Micro/Nano- Additive Inorganic Direct Laser Structuring via Multiphoton Polymerization</b></p>  |
| <b>12:54</b> | <p>Amlan Das<br/><i>LP3, France</i></p> <p><b>Pulse width Dependence of ultrafast laser modifications in bulk silicon</b></p>  | <p>Juozas Dudutis<br/><i>Center for Physical Sciences and Technology, Lithuania</i></p> <p><b>Is it always necessary to have the ideal laser beam? Case of glass dicing</b></p>  | <p>Laimis Zubauskas<br/><i>Center for Physical Sciences and Technology, Lithuania</i></p> <p><b>Thin Water Film Assisted Glass Ablation with High Pulse Repetition Rate Laser</b></p>   |
| <b>13:06</b> | <p>Ernestas Nacius<br/><i>Workshop of Photonics (Altechna R&amp;D), Lithuania</i></p> <p><b>Experimental realization of vortical Bessel beams with engineered focal line for laser micromachining applications</b></p> | <p>Žygimantas Prielaidas<br/><i>Center for Physical Sciences and Technology, Lithuania</i></p> <p><b>Fabrication of hierarchical structures using interference lithography and the study of their wetting properties</b></p>   | <p>Darius Pundzius<br/><i>Vilnius University, Laser Research Center, Lithuania</i></p> <p><b>Investigation of supercontinuum expansion to the blue side of the spectrum in lithium strontium aluminium fluoride</b></p>                       |
| <b>13:18</b> | <p>Niane Samba<br/><i>Alphanov, France</i></p> <p><b>Laser nano-machining on dielectrics materials</b></p>   | <p>Margarita Zhilnikova<br/><i>Moscow Institute of Physics and Technology &amp; Wave Research Center of Prokhorov General Physics Institute of the Russian Academy of Sciences, Russia</i></p> <p><b>Formation of elongated nanoparticles by laser ablation of gold target in aqueous solutions containing divalent ions</b></p> | <p>Ilya Tumkin<br/><i>Saint Petersburg State University, Russia</i></p> <p><b>Direct laser writing technique for creating non-enzymatic sensors</b></p>   |

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| <b>Time:</b> | <b>Session 2</b>  | <b>Session 4</b>   | <b>Session 6</b>   |
| <b>15:30</b> | <p>Kévin Gaudfrin<br/><i>Alphanov, France</i></p> <p><b>Fused silica ablation by double ultra-short laser pulses</b></p>  | <p>Simon Schwarz<br/><i>University of Applied Sciences Aschaffenburg, Germany</i></p> <p><b>Axicon fabrication with ultrashort pulsed and CO2 laser</b></p>  | <p>Evaldas Svirplys<br/><i>Center for Physical Sciences and Technology, Lithuania</i></p> <p><b>Influence of laser ablation parameters on the operation of laser-ablated silicon optical components for Thz radiation</b></p>        |
| <b>15:42</b> | <p>Paul Quinoman<br/><i>CELIA, France</i></p> <p><b>Modelling of dielectric material structuring by spatially chirped femtosecond laser pulses</b></p>  | <p>Mikhael El-Khoury<br/><i>Institute for Manufacturing Technology, Technical University Dresden, Germany</i></p> <p><b>Fabrication of complex textured surfaces using multi-pulse Direct Laser Interference Patterning with ns pulses</b></p> | <p>José Manuel López López<br/><i>Universidad Politécnica de Madrid (ETSII), Spain</i></p> <p><b>Droplet Assisted Laser Micromachining of Hard Alloys</b></p>  |
| <b>15:54</b> | <p>Valeria Viviana Belloni<br/><i>Università dell'Insubria - Dipartimento di Scienza ad Alta Tecnologia, Italy</i></p> <p><b>Ultrafast Bessel beams for micromachining of transparent materials</b></p> | <p>Iaroslav Gnilitzkyi<br/><i>UNIMORE, Italy</i></p> <p><b>LASER Induced Quantum Dots generation</b></p>   | <p>Julen Azkona<br/><i>Asociación Centro Tecnológico Ceit-IK4, Spain</i></p> <p><b>Near-field diffraction properties of femtosecond laser fabricated Volume-Phase Gratings in transparent media</b></p>                              |
| <b>15:06</b> | <p>Andrey Bushunov<br/><i>Bauman Moscow State University, Russia</i></p> <p><b>Anti-reflection microstructures fabrication by single-pulse femtosecond laser ablation</b></p>                           | <p>Christian Lutz<br/><i>University of Applied Sciences Aschaffenburg, Germany</i></p> <p><b>Fast micro-structuring by using a femtosecond laser in combination with a Spatial Light Modulator</b></p>   | <p>Jide Han<br/><i>KU Leuven, Belgium</i></p> <p><b>Femtosecond Laser Processing Zirconia Based Ceramics for Dental Applications</b></p>   |
| <b>15:18</b> | <p>Juraj Sládek<br/><i>HiLASE Centre, Czech Republic</i></p> <p><b>Periodic surface structuring of glass materials using ultrashort laser pulses</b></p>  | <p>Gian-Luca Roth<br/><i>University of Applied Sciences Aschaffenburg, Germany</i></p> <p><b>Fast micro-structuring by using a femtosecond laser in combination with a Spatial Light Modulator</b></p>   | <p>Grete Kvedaraviciute<br/><i>Ecole Polytechnique, France</i></p> <p><b>The quantization of matter. The Franck-Hertz experiment</b></p>   |
| <b>15:30</b> |   |  | <p>Jonas Karosas<br/><i>Center for Physical Sciences and Technology, Lithuania</i></p> <p><b>Recording and characterization of phase diffractive optical elements recorded by focused femtosecond beams deep in fused silica</b></p> |