UPLAMP 2024 Summer School on Ultra-short Pulse Lasers Applications in Material Processing

Students Oral Presentations Programme

	July 1	July 2	July 3	July 4
Time:	Session 1	Session 3	Session 5	Session 6
12:30	Yuan Xu	Srivathsa Venkatesh	Jia-Fan Kuo	Shang Yu Hsu
	Multiscale Computational	Thin Film Deposition and	High-quality structures on 4H-SiC	Introduction of Ultrafast Laser
	Study of Surface Modification	patterning	fabricated by femtosecond laser	Technology Research and
	by Nonlinear Laser-Induced			Innovation Center in ITRI
	Surface Acoustic Waves			
12:42	Chaobo Chen	Dainius Balkauskas	Patrick Hildebrand	Ching Chan Chen
	Atomistic Modeling of Pulsed	Electrodes formation by laser	Improving 2PP printing freedom	Ultrafast Laser Material
	Laser Ablation in Liquid	induced copper deposition on	with 3D beam shaping and	Modification Process Application
		glass for innovative smart	intensity accumulation	at ITRI
		windows		
12:54	Luis Omeñaca	Šarūnas Mickus	Soheil Alee Mazreshadi	Jyun-Jhih Wang
	Optimizing Ultrafast Laser	Investigation of the Formation of	Optimizing Laser Parameters for	Applications of Ultra-Fast Laser
	Ablation: Experimental analysis	Electrically Conductive Zones on	Robust Bonding in Multiphoton	Micro-Processing
	and two-temperature model	Dielectric Surfaces by Laser-	Polymerization: A Parametric	
	enhancement with multi-pulse	Induced Metallization and	Study	
	and incubation considerations	Graphene Formation		
13:06	Evaldas Kažukauskas	Justina Žemgulytė	Jaime Cuartero	Yongting Yang
	Exploring the dynamic surface	Effects of Different	Beam parallelization for increased	Ultrashort pulsed laser robot
	roughness evolution of fused	Manufacturing Techniques on	productivity Two-Photon	system: A step forward towards
	silica under multilayer ablation	the Performance of Planar	Polymerization by means of	flexible and 3D laser
	conditions using femtosecond	Antennas	Spatial Light Modulators	micromachining
	laser pulses			
13:18	Vishnu Prakash Karunakaran	Mohamed Ahmed Baba	Darija Astrauskytė	Dominik Mücke
	Femtosecond Laser	Micromachining of solid oxide	Reducing reflection losses in	Towards Automated Hybrid Laser
	Micromachining for Quantum	fuel cell	multi-level micro-optics made by	Processing of Fused Silica
	Photonics Devices		femtosecond laser direct writing	

	Session 2	Session 4	Session 7
15:30	Kernius Vilkevičius	Dirk Obergfell	Alireza Shahidi
	The periodic plasmonic	Investigation of the Influence of	Enhanced Production of Gold
	nanostructures with tunable	Pulse Width and Different Burst	Nanoparticles via Ultrasonic
	morphology produced using	Modes on Ablation	Cavitation and Ultrashort Pulse
	femtosecond pulses	Characteristics of different types	Laser Irradiation
		of stainless steel	
15:42	Rodrigas Liudvinavičius	Natalia Grudzień	Vita Petrikaitė
	Plasmonic microbumb grating	Increasing the removal rate of	Generation of bimetallic
	resilience to the immersion into	metals with femtosecond fiber	nanoparticles from thin gold and
	liquids for practical applications	laser	silver films on glass substrate and
			use for SERS enhancement
15:54	Eulàlia Puig Vilardell	Robin Klöpfer	Gazy Khatmi Rodowan Albedry
	3D Photonic Crystal for	Influence of heat accumulation	Lateral Flow Assay Sensitivity and
	Rainbow Trapping Fabricated	on the melt film thickness and	Signal Enhancement via Laser μ-
	via Two-Photon Lithography	surface structure occurrence	Machined Constrains in
		during laser percussion drilling	Nitrocellulose Membrane
16:06	Indrė Meškėlaitė	Fabian Ränke	Artur Harnik
	Pathway towards femtosecond	High-speed laser surface	YAG:Ln for laser 3D lithography:
	direct laser writing of	texturing by combining direct	precursor synthesis and study
	waveguides in transparent	laser interference patterning	
	media for optical neural	with polygon scanner	
	networks	technology	
16:18	Edvinas Aleksandravičius	Rimantas Naina	Jaroslaw Jacak
	Suppression of filamentation by	Selective laser etching of fused	3D multiphoton -lithography of
	photonic crystals	silica using low numerical	protein-based scaffolds for stem
		aperture focusing objective	cell studies