Agenda

Tuesday, June 11th

	HALL 1	HALL 2	HALL 3	HALL 4
	09.00-09.30 Reception and acreditation			
9:30 9:35	**09.30-09.40** Welcome			
9:40 9:45 9:50 9:55 10:00 10:05 10:10 10:15 10:20	**09.40-10.25** Plenary Session 1: Perspective of laser technology empowering lithium-ion batteries Prof. Dr. Wilhelm Pfleging, INSTITUTE FOR APPLIED MATERIALS (IAM-AWP)			
10:25 10:30 10:35 10:40 10:45 10:50 10:55 11:00 11:05	**10.25-11.10** Plenary Session 2: A past, present, and future perspective on dynamic beam shaping for laser materials processing Prof. Craig Arnold, PRINCETON UNIVERSITY			
	11.10-11.40 Coffee Break			
	3-D micro -and nano- fabrication 1		**Beam shaping**	**Fundamental aspects 1**
11:40 11:45	**11.40-11:50 /** Session sponsor: LASING		**11:40-12:00** Implementation of Custom Beam Shaping Techniques and its Application in Ultrafast Laser Material Processing Jorge Fantova, CEIT (S)	**11:40-12:00** Influence of Antireflection Si coatings on the Damage Threshold of fused silica upon irradiation with Mid-IR femtosecond laser pulses George Tsibidis, IESL - FORTH
11:50 11:55 12:00 12:05	**11:50- 12:10** Super-resolution imaging of cancer cells migrating in CYTOP microchannels fabricated by femtosecond laser Mirai Hanzawa, RIKEN / TAT (S)		**12:00-12:20** Ultrafast Laser Beam Shaping: Effects of Resolution and Quantization Limits of Liquid Crystal Spatial Light Modulators Cyril Mauclair, LABORATOIRE HUBERT CURIEN	**12:00- 12:20** A novel approach for simulation of a moving heat source in laser based additive manufacturing Khuldoon Usman, NLD
12:10 12:15 12:20 12:25	**12:10-12:30** Mould optimization by femtosecond laser for the injection of high-quality optical parts Gemma García Mandayo, CEIT		**12:20-12:40** Planar Light Valve (PLV) optical head for high throughput 10µm feature size laser processing Gregory Jacob, SILICON LIGHT MACHINES	**12:20-12:40** Realizing the Potential of Physics-Informed Neural Network in Modelling Laser Drilling Process Zahra Kheirandish
12:30 12:35 12:40 12:45	**12:30- 12:50** BSA-Urease Proteinaceous Microstructures Made By Femtosecond Laser Direct Write Daniela Serien , AIST			**12:40-13:00** Irradiating gold with double-pulses of ultrafast laser radiation Markus Olbrich, LASERINSTITUT HOCHSCHULE MITTWEIDA
12:50 12:55 13:00 13:05	**12:50- 13:10** GHz burst mode femtosecond laser processing for improving resolution of two-photon polymerization Ashkan Momeni, RAP			
	13.10-14.30 Lunch Break			

	HALL 1	HALL 2	HALL 3	HALL 4
	LPM 25th Year Anniversary Special Session			
14:30	**14.30-14.40** History of LPM Dr. Koji Sugioka			
14:35				
14:40				
14:45				
14:50	**14.40-15.10** Advances in ultrafast laser processing over the past 25 years and the future Dr. Koji Sugioka			
14:55				
15:00				
15:05				
15:10				
15:15				
15:20	**15.10-15.40** The frontiers of laser applications in laser fusion, medical diagnosis, and AI-enhanced spectroscopy Prof. Yongfeng Lu, UNIVERSITY OF NEBRASKA-LINCOLN			
15:25				
15:30				
15:35				
15:40				
15:45				
15:50	**15.40-16.10** Beam shaping in laser materials processing - from systems technology to process engineering Prof. Dr. Michael Schmidt, FAU - LEHRSTUHL FÜR PHOTONISCHE TECHNOLOGIEN			
15:55				
16:00				
16:05				
	16.10-16.40 Coffee Break			
	3-D micro -and nano- fabrication 2		Medical and Biological applications	Fundamental aspects 2
16:40			**16.40-17:00** Structured light-based SLAM for lung navigation using ultracompact micro-optics in polymer imaging fibres Pablo Roldan-Varona, HERIOT WATT UNIVERISITY	**16.40h-17.00** Ab initio calculations for electron temperature dependence of laser-processing efficiency on Si surface Shunsuke Yamada, QST
16:45				
16:50	**16.40-17.10** 3D nanoprinting with light Maria Farsari, IESL - FORTH			
16:55				
17:00			**17.00-17.20** Three dimensionally tailored volume shapes fabricated in glass by laser processing for cancer research Felix Sima, INFLPR	**17.00-17.20** Molecular dynamics simulations of micros-holes evolution of single-crystal Ni-based superalloys under femtosecond laser loading Peng Shen, XI'AN JIAOTONG UNIVERSITY (S)
17:05				
17:10				
17:15	**17.10-17.30** Rapid fabrication of micro-chip using two-photon polymerization for multiphoton microscopy Behjat Sadat Kariman,POLITECNICO MILANO			
17:20			**17.20-17.40** AFM detection of wave propagation on cellular tissue induced by femtosecond laser impulse and its analysis to characterize mechanical properties Yoichiroh Hosokawa, NAIST	**17.20-17.40** Semiclassical simulation of radiation and photoemission from metal surface under intense femtosecond laser field Mizuki Tani, QST
17:25				
17:30				
17:35	**17.30-17.50** Two photon polymerization of porous scaffolds: cancer cell invasiveness versus motility Alexandra Bran , INFLPR (S)			
17:40			**17.40h-18.00** Raman spectroscopy of pancreatic islet β cells in biomedical nanotechnology Yan Li, UNIVERSITY OF BEDFORDSHIRE (S)	**17.40-18.00** Fs-laser-produced high-Q factor acoustic nanomembranes Pavel Varlamov, ÉCOLE POLYTECHNIQUE (S)
17:45				
17:50				
17:55	**17.50-18.10** Multi-material two-photon lithography using laser-manipulated droplets Shoji Maruo, YOKOHAMA NATIONAL UNIVERSITY			
18:00				**18.00-18.20** Investigation of the role of pulse duration and film thickness on the damage threshold of metal thin films irradiated with femtosecond laser pulses Maria-Christina Velli, FORTH (S)
18:05				
18:10				
18:15				
	19.00-20.00 Welcome Reception San Sebastian City Hall C/ Ijentea, 1, 20003 Donostia, Gipuzkoa			

Wednesday, June 12th

	HALL 1 HALL 2	HALL 3	HALL 4
	Ultra-short pulse laser processing 1	**Burst ablation 1**	**Surface processing 1**
9:00		**9.00-9.10** Session sponsor: EKSPLA: Award winning femtosecond laser technologies Lukas Rimgaila, EKSPLA	
9:05	**09.00-09.30** Laser-produced nanophotonic structures for advanced particle accelerators Eduardo Granados, CERN		**09.00h-09.30** Sucess factors for industrial application of LIPSS Ainara Rodriguez, CEIT
9:10			
9:15		**09.10-09.40** High performance material processing by GHz burst mode femtosecond laser Kotaro Obata, RAP	
9:20			
9:25			
9:30			**09.30- 09.50** Exploring the dynamic surface roughness evolution of fused silica under multilayer ablation conditions using femtosecond laser pulses Evaldas Kažukauskas, VILNIUS UNIVERSITY (S)
9:35	**09.30-09.50** AI-supported prediction of femtosecond laser micromachining parameters David Bruneel, LASEA		
9:40		**09.40-10.00** Industrial grade ultrafast laser with versatile burst mode for industrial applications Lukas Rimgaila, EKSPLA	
9:45			
9:50			**09.50-10.10** Real-time monitoring of nanosecond Direct Laser Interference Patterning structure formation on stainless steel using time-resolved reflectivity Ignacio Tabares, TECHNISCHE UNIVERSITÄT DRESDEN (S)
9:55			
10:00	**09.50-10.10** Influence of the wavelength on femtosecond laser ablation thresholds and incubation coefficients of silicon, germanium and sapphire Javier Prada-Rodrigo, LABORATOIRE HUBERT CURIEN	**10.00-10.20** Single pulse ablation of different types of stainless steel: A comparison of pulse duration and the use of different burst modes Dirk Obergfell, KSF INSTITUTE (S)	
10:05			
10:10	**10.10-10.30** Measurement of intense stress wave generated by double femtosecond laser pulses in fused silica Huijie Sun, THE UNIVERSITY OF TOKYO (S)		**10.10h-10.30** Laser-enabled surface treatment of medical device with superior drainage Masaki Yamaguchi, SHINSHU UNIVERSITY
10:15			
10:20		**10.20-10.40** Efficient bottom-up laser cutting of soda-lime glass using GHz bursts MIGLė MACKEVIčIūTė, FTMC (S)	
10:25			
10:30			**10.30-10.50** Morphology-chemistry relationship in the wettability of LIPSS-covered femtosecond laser textured stainless steel surfaces Quentin Legrand, ECOLE CENTRALE DE LYON
10:35	**10.30-10.50** Temporal polarization shaping of ultrafast pulse for laser material nanoprocessing applications Thirunaukkarasu Kuppan, LABORATOIRE HUBERT CURIEN (S)		
10:40			
10:45			
	10.50-11.20 Coffee Break		
11:20			
11:25			
11:30			
11:35	**11.20-12.05** Plenary Session 3 Fabrication of Functional Surfaces by Laser Interference Lithography Prof. Zuobin Wang, CUST, CHANGCHUNG		
11:40			
11:45			
11:50			
11:55			
12:00			
12:05			
	12.05-13.20 Poster Short Presentations		
	13.20-14.20 Lunch break & Poster Session		

	HALL 1 HALL 2	HALL 3	HALL 4
	Ultra-short pulse laser processing 2	**Burst ablation 2**	**Surface processing 2**
14:25	**14.25-14.55** Electrical and optical anisotropies induced by fs-laser processing in transparent conductive oxides (TCO´s) Javier Solis, CSIC	**14.25-14.45** Increased efficiency of ultrafast laser ablation of Polypropylene surfaces using burst pulses Julen Molinuevo, TEKNIKER (S)	**14.25-14:45** Burst Mode Femtosecond Laser Polishing: Complex Profile Surface Roughness Reduction without Damage Iñigo Ramon-Conde, CEIT (S)
14:30			
14:35			
14:40			
14:45		**14.45-15.05** Machining of Through-Glass Vias (TGVs) with Femtosecond Laser GHz Burst Modes Mykolas Karpavicius, LIGHT CONVERSION	**14.45-15.05** Flexible femtosecond laser interference patterning for high-precision nanostructuring of semiconductors Jan Siegel, CSIC
14:50			
14:55	**14.55-15.15** Bulge generation prediction model for femtosecond laser multi-shot and line ablation Alaitz Zabala, MONDRAGON UNIBERTSITATEA		
15:00			
15:05		**15.05-15.25** Femtosecond laser drilling of high-density micro-holes on metals using MHz burst mode Themistoklis Karkantonis, OXFORD LASERS	**15.05-15.25** Replicative production of multifunctional microfluidic polymer films for biomedical disposables Eric Gärtner, FRAUNHOFER IWU
15:10			
15:15			
15:20	**15.15-15.35** GaAs ablation in air and water with femtosecond pulses Laimis Zubauskas, FTMC (S)		
15:25		**15.25-15.45** Fused silica top-down laser milling using MHz, GHz, and bi-bursts regimes Paulius Gecys, FTMC	**15.25-15.45** Surface functionalization without knowledge of surface topography and chemistry – a versatile approach Alexander Wienke, LASER ZENTRUM HANNOVER
15:30			
15:35	**15.35-15.55** Cu micropatterning using femtosecond laser pulse-induced Cu precipitation of Ag nanoparticles added glyoxylic acid Cu complex ink Phuong Nam Ha, NAGAOKA UNIVERSITY OF TECHNOLOGY (S)		
15:40			
15:45		**15.45-16.05** Efficient laser surface colouring on stainless-steel using femtosecond GHz bursts Mantas Gaidys, LTS-FTMC (S)	**15.45-16.05** Tailoring Laser Textured Metasurfaces towards Ultrasound Wave Control in Underwater Acoustics Francesco P. Mezzapesa, CNR
15:50			
15:55			
16:00	**15.55-16.15** High-quality cleaving of BK7 and ultra-thin glass using bursts of ultrashort pulses Bogusz STęPAK, FLUENCE		
16:05			
16:10			
	16.15-16.45 Coffee Break		
	Nano -and micro-particles	**Laser-induced forward transfer (LIFT) techniques**	**Advanced laser processing**
16:45			
16:50	**16.45-17.15** Multi-beam pulsed laser ablation in liquids synthesized Fe50Ni50 nanoparticles for the 4D printing of miniaturized magneto-responsive actuators Carlos Doñate Buendia, UNIVERSITY JAUME I	**16.45-17.15** Printing microlenses with lasers. elastic substrates to the rescue! Pere Serra , Universitat de Barcelona	**16.45-17.15** Circumventing the limitations in semiconductor laser processing using unconventional mid-infrared pulses Pol Sopeña, CNRS-AMU
16:55			
17:00			
17:05			
17:10			
17:15	**17.15-17.45** Surprising Trends in Pulsed Laser Defect Engineering in Liquid Sven Reichenberg, UNIVERSITY OF DUISBURG-ESSEN	**17.15-17.45** PolymerLIFT-Parallel synthesis and nanolayer 3d printing Felix Loeffler, MPICI	**17.15-17.45** Laser processing for distributed sensing applications Martynas Beresna, UNIVERSITY OF SOUTHAMPTON
17:20			
17:25			
17:30			
17:35			
17:40			
17:45	**17.45-18.05** Controlling stability and SERS enhancement in laser-generated gold, silver, and hybrid colloidal nanoparticles with KCl concentrations Vita Petrikaitė, FTMC (S)	**17.45-18.05** Preparation of high-performance microcircuits based on arc-beam laser-induced forward transfer and its mechanistic study Yajun Huang, GUANGDONG UNIVERSITY OF TECHNOLOGY	**17.45-18.05** Femtosecond laser processing with aberration compensation based on deep learning Satoshi Hasegawa, UTSUNOMIYA UNIVERSITY
17:50			
17:55			
18:00			
18:05	**18.05-18.25** Pulsed Laser Crushing in Liquid Sven Reichenberger, UNIVERSITY OF DUISBURG-ESSEN	**18.05-18.25** Substrate reshaping for improved aspect ratio and miniaturization of LIFT printed electrodes Ernest Martí Jerez, UNIVERSITAT DE BARCELONA (S)	**18.05-18.25** Frequency-driven melt pool dynamics through oscillating energy input in powder bed fusion Marco Rupp, PRINCETON UNIVERSITY (S)
18:10			
18:15			
18:20			
18:25	**18.25-18.45** Feedstock modification for Diode Laser-Based Powder Bed Fusion of PA12 using Laser-generated NIR-absorbing Nanoparticles in liquids Anna Rosa Ziefuss, UNIVERSITY OF DUISBURG-ESSEN	**18.25-18.45** Laser-induced forward transfer (LIFT) for rapid prototyping of advanced electrode architectures for lithium-ion batteries Ulrich Rist, KARLSRUHE INSTITUTE OF TECHNOLOGY	**18.25-18.45** On-chip coherent beam combination of TFLN waveguide amplifiers fabaricated by the photolithography assisted chemo-mechanical etching technique Rui Bao, EAST CHINA NORMAL UNIVERSITY (S)
18:30			
18:35			
18:40			

Thursday, June 13th

	HALL 1	HALL 2	HALL 3	HALL 4
		Special Session 1: Horizon Europe – Towards the excellence in laser micromanufacturing through EU projects 1		Process monitoring and control 1
9:00		09.00-09.30		
9:05		Unveiling the European Journey: Advancements in Laser Technology through Laser4Fun, LAMpAS, and CLASCO projects		09.00h-09.30
9:10		Andrés Fabián Lasagni, TECHNISCHE UNIVERSITÄT DRESDEN		High speed temperature monitoring i
9:15				laser material processing with ultrash
9:20	Nano ripple formation 1			pulses
9:25				Jiri Martan, UNIVERSITY OF WEST BOHEMIA
9:30				
9:35	09.30-09.50	09.30-09.50	Special Session 2: Success stories of laser applications with micrometer resolution in the industry 1	09.30- 09.50
9:40	Prediction of laser induced nano-periodic structure with deep learning	Impact of plasmonic modes on the formation of self-organised nano-patterns in thin films	09.40-09.50	Observation of ultrasonic generated b
9:45	Ryota Masuda, UTSUNOMIYA UNIVERSITY (S)	George Tsibidis, FORTH	Session Sponsor: LASEA Laser micromachining process with ultrashort pulse laser by Lasea	a femtosecond laser pulse focused on glass surface and position control of a object lens using the ultrasonic Yoshio Hayasaki, UTSUNOMIYA UNIVERSITY
9:50		09.50-10.10	09.50-10.10	09.50-10.10
9:55	09.50-10.10	FABulous Project: enabling the next generation of high efficiency optical products on 3D surfaces through Two Photon Polymerization	Laser texturing and colouring of complex designs, a high reproducible time-stable approach to push the limit of laser industrialization	Monitoring of femtosecond laser micromachining using ultra-high spee
10:00	Laser Induced Periodic structures; generation and applications	Francisco Gontad, AIMEN	Abel Gil Villalba, LASEA	photodiodes: the effect of feature dep
10:05	Masaki Hashida, TOKAI UNIVERSITY			on the optical process emission Kerim Yildirim , KU LEUVEN (S)
10:10		10.10-10.30	10.10-10.30	10.10h-10.30
10:15	10.10-10.30	Elevating battery technology through laser machining: Insights from HighSpin and BatWoMan European projects	Dynamic beam shaping: flexibility and efficiency as the keys to broader adoption of industrial micromachining applications	Synchrotron X-ray imaging of the formation of geometry deviations du
10:20	Surface characterization of 2D-LIPSS fabricated on titanium surfaces by GHz burst mode femtosecond laser pulses	Viktoria Falkowski, KARLSRUHE INSTITUTE OF TECHNOLOGY	Florent Thibault, QIOVA	percussion laser drilling with ultrash pulses
10:25	Shota Kawabata, RIKEN - TUAT (S)			Lukas Schneller, IFSW (S)
10:30	10.30-10.50	10.30-10.50	10.30-10.50	10.30-10.50
10:35	NanoIR spectroscopic analysis revealing densification mechanisms in fs-laser induced nanogratings	A durable superhydrophobic hierarchical surface structure fabricated by ultrafast laser processing	Femtosecond laser ablation efficiency of batteries materials	Acoustic trilateration monitoring for laser surface processing monitoring.
10:40				
10:45	Nadezhda Shchedrina, UNIVERSITÉ PARIS-SACLAY (S)	Paul Butler Smith, MTC	Eric Audouard, AMPLITUDE	Clovis Alleaume, AIMEN
	10.50-11.20 Coffee Break			
	Nano ripple formation 2	Special Session 1: Horizon Europe – Towards the excellence in laser micromanufacturing through EU projects 2	Special Session 2: Success stories of laser applications with micrometer resolution in the industry 2	Manufacture of micro devices and systems 1
11:20		11.20-11.40	11.20-11.40	11.20-11.40
11:25	11.20-11.50	Sustainably and digitally driven hierarchical laser texturing for complex surfaces	Laser MicroJet. A unique, water jet guided laser technology	Integrated electro-optically tunable narrow-linewidth laser fabricated by photolithography assisted chemo-mechanical etching
11:30	Role of laser irradiation parameters, polymer nature and environment on the formation and properties of LIPSS on polymers	Christoph Zwahr, FRAUNHOFER IWS	Amédée Zryd, SYNOVA	Yiran Zhu, EAST CHINA NORMAL UNIVERSITY (S)
11:35	Esther Rebollar, CSIC			
11:40		11.40-12.00	11.40-12.00	11.40-12.00
11:45		GigaGreen Project. Ultra-Short Pulse Laser Technology meets Next-Gen Battery Production	Picosecond laser micromachining of stainless steel for applications in optical angular encoders	Femtosecond laser micromachining of glass devices for strong laser fields applications
11:50	11.50-12.10	Girolamo Mincuzzi, ALPHANOV	Julen Azkona, FAGOR AUTOMATION	Rebeca Martínez Vázquez, IFN-CNR
11:55	Laser-induced periodic surface structures (LIPSS) in 2-D materials			
12:00	Evgeny Gurevich, FH MÜNSTER	12.00-12.20	12.00-12.20	12.00-12.20
12:05		Applying Femtosecond Laser Technology for Advanced Cardiovascular Stent Fabrication	Cold processing and 3D inspection of semiconductors with ultrafast fiber laser	Rapid prototyping of a glass micromixer by using laser manufacturing
12:10	12.10-12.30	Mingdong Dong, iNANO-huset	Abraham Loredo - Trejo, FYLA	Vincenzina Siciliani, UNIVERSITY OF MODENA AND REGGIO EMILIA (S)
12:15	Formation of homogeneous LIPSS on ZnO by two-step process using two-beam interference femtosecond laser			
12:20		12.20-12.40	12.20-12.40	12.20-12.40
12:25	Junji Morimoto, RIKEN - TUAT (S)	SUStainable Antimicrobial and Antiviral Nanocoating	Advancements in micro-processing through the integration of flexible beam-shaping with MPLC technology	Laser based manufacturing of microfluidic device for particle manipulation
12:30		Isabel Ayerdi , CEIT	Dmitry Nuzhdin, CAILABS	Duncan Hand, HERIOT WATT UNIVERISITY
12:35				
	12.40-14.10 Lunch Break			

	HALL 1	HALL 2	HALL 3	HALL 4
	Ultra-short pulse laser processing 3	**Special Session 1. Horizon Europe – Towards the excellence in laser micromanufacturing through EU projects 3**	**Laser-based direct-write techniques 1**	**Micro-patterning and micro-structuring 1**
14:10	**14.10-14.30** Fabrication of on-chip thin film lithium niobate arrayed waveguide grating using femtosecond laser Min Wang, EAST CHINA NORMAL UNIVERSITY	**14.10-14.30** Generation of bio-based riblets to reduce drag in industrial parts using Direct Laser Writing technology Mikel Gomez-Aranzadi, CEIT	**14.10-14.40** Laser-induced bubble for microfabrication? MicroFLIB technique and its mechanism study Yasutaka Hanada, HIROSAKI UNIVERSITY	**14.10-14.40** Laser interference lithography as a tool for advanced semiconductor nanostructures Mark Hopkison, UNIVERSITY OF SHEFFIELD
14:15				
14:20				
14:25				
14:30	**14.30-14.50** Fabrication of photonic crystal structures by single pulse laser interference Lithography Zhiheng Lin, FRAUNHOFER ILT (S)	**14.30-14.50** Evolution of the kerf wall angle in ultrashort pulse laser cutting of stainless steel sheets Martin Osbild, FRAUNHOFER ILT		
14:35				
14:40			**14.40-15.00** One-step-process of re-entrant textures on transparent glass using direct laser interference processing Masaki Yamaguchi, SHINSHU UNIVERSITY	**14.40-15.00** Femtosecond laser fabrication of superior quality moulds to replicate complex micro and nano-patterns Aldara Pan, CEIT
14:45				
14:50	**14.50-15.10** Ultrafast bulk laser-machining of scalable hollow structures for integrating nanophotonic functions inside silica glass Nicolas Sanner, AIX-MARSEILLE UNIVERSITY	**14.50-15.10** Spatially resolved fluence measurement for arbitrary laser beam shapes Moritz Battermann, FRAUNHOFER ILT		
14:55				
15:00			**15.00-15.20** Using Laser in the Fabrication of Graphene for Gas Sensing A Digital Twin Approach Foad Salehnia, UNIVERSTITAT ROVIRA I VIRGILI	**15.00-15.20** Enhanced Flexibility in Direct Laser Interference Patterning through Industrial Robot Integration Lukas Olawsky, ALOTEC
15:05				
15:10		**15.10-15.30** The OPERATIC system. a novel tool for laser surface structuring and its application for the improvement of tribological properties Pablo Romero, AIMEN		
15:15	**15.10-15.30** Laser ablation behaviors of alumina and nickel oxide doped zirconia ceramics Qingchuan Guo, RUB			
15:20			**15.20-15.40** On-chip thin film lithium niobate active devices fabricated by femtosecond laser direct writing assisted chemo-mechanical etching Zhiwei Fang, EAST CHINA NORMAL UNIVERSITY	**15.20-15.40** Influence of laser micropatterning on the mechanical strength of dental grade zirconia Bruno Henriques, UNIVERSIDADE DO MINHO
15:25				
15:30				
15:35				
15:40			**15.40-16.00** Plasmonic structures formation in gold and silver films using direct laser writing technique Evaldas Stankevicius, FTMC	**15.40-16.00** Toward freeform reflective fused silica optics using ultrafast laser assisted etching Thibaud Van Gorp
15:45				
15:50				
15:55				
	16.00-16.30 Coffee Break			
	Ultra-short pulse laser processing 4	**Micro-drilling, micro-cutting & micro-welding**	**Laser-based direct-write techniques 2**	**Micro-patterning and micro-structuring 2**
16:30	**16.30-16. 50** Beam-shaping using axicon-lens doublets for laser fabrication of through-silicon-structures Niladry Ganguly, AIX-MARSEILLE UNIVERSITY (S)	**16.30-16.50** High speed and precision cutting of thin glass with ultra-fast asymmetric Bessel-like beams Lunzhen Lu, ANHUI UNIVERSITY	**16.30-17.00** Selective ultrashort pulse laser-induced metal plating – step forward for advanced heterogeneous chip integration Gediminas Račiukaitis, FTMC	**16.30-16. 50** Investigation of femtosecond laser induced multi pulse ablation of aluminium surfaces Luis Omeñaca, CEIT (S)
16:35				
16:40				
16:45				
16:50	**16.50-17.10** Femtosecond laser processing in burst regime. a rapid manufacturing tool for high precision surface treatment Florent Husson, ALPHANOV	**16.50-17.10** Single- and multi-beam drilling of thin titanium foils by femtosecond laser ablation in liquids Philipp Maak, RUHR UNIVERSITY BOCHUM		**16.50-17.10** Processing of hierarchical micro-structured smart sliding surfaces using femtosecond-pulsed laser Masaki Yamaguchi, SHINSHU UNIVERSITY
16:55				
17:00			**17.00-17.20** Bessel-beam direct-write of the etch-mask in a nano-film of alumina for high-efficiency Si solar cells Saulius Juodkazis, SWINBURNE UNIVERSITY OF TECHNOLOGY	
17:05				
17:10	**17.10-17.30** Surface morphology control at nanometric scale by ultrashort laser pulses for energy storage application Anthony Nakhoul, LABORATOIRE HUBERT CURIEN	**17.10-17.30** High aspect ratio hole drilling in various glasses using long GHz burst packages Valdemar Stankevič, AKONEER		**17.10-17.30** Pushing the Boundaries. 1 kW Fiber Laser-Driven Direct Laser Interference Patterning Technique Bogdan Voisiat, TECHNISCHE UNIVERSITÄT DRESDEN
17:15			**17.20-17.40** Laser direct lithography for maskless patterning on large-format 3D-surfaces Julian Hürtgen, FRAUNHOFER ILT	
17:20				
17:25				
17:30	**17.30-17.50** Ultrashort Pulsed laser welding of bulk zinc selenide (ZnSe) to structural materials for optical applications Adrian Dzipalski, HERIOT WATT UNIVERISITY	**17.30-17.50** Influences of magnetic fields on the laser welding of Al/Steel for the electric vehicle battery manufacturing Zhiheng Ye, FRAUNHOFER ILT (S)		**17.30-17.50** Morphological tunability of periodic SERS structures generated by single fs pulses Kernius Vilkevičius, FTMC (S)
17:35				
17:40				
17:45			**17.40-18.00** Copper-based electrodes for non-enzymatic D-glucose detection fabricated using green femtosecond laser burst pulses Mizue Mizoshiri, NAGAOKA UNIVERSITY OF TECHNOLOGY	
17:50		**17.50-18.10** Femtosecond laser cutting of thin quartz wafers for green fabrication of quartz-based devices Raffaelle de Palo, UNIVERSITY OF BARI (S)		
17:55				
18:00				
18:05				
18:10				
18:15				
	20.30-23.00 Gala Dinner Hotel de Londres C/ Zubieta, 2, 20007 Donostia, Gipuzkoa			

Friday, June 14 th

	HALL 1 HALL 2	HALL 3	HALL 4
	Ultra-short pulse laser processing 5	**Micro-machining**	**Manufacture of micro devices and systems 2**
9:00		**09.00 - 09.20** Micro-structuring Characteristics on Metal Surface by High-speed Scanning of Angled CW Laser Irradiation Taiki Kawai, OKAYAMA UNIVERSITY (S)	**09.00 - 09.20** Glass microlens-arrays with distributed focal distances manufactured using femtosecond laser processing and laser thermal reflow Martin Lentz, EPFL
9:05			
9:10	**09.00 - 09.30** Adaptive optics for aberration correction in internal laser manufacturing of optical fiber Julian Fells, UNIVERSITY OF OXFORD		
9:15			
9:20		**09.20 - 09.40** Variable focus double-pulse nanosecond laser micromachining Andreas Schkutow, OHM	**09.20 - 09.40** Laser precision microfabrication of optical and fluidic components on the basis of silicon suboxide thin films Jürgen Ihlemann, IFNANO
9:25			
9:30			
9:35	**09.30 - 09.50** Ultra short pulse processing of glass with DUV Flat-top laser source Kamilė Kasačiūnaitė, LIGHT CONVERSION		
9:40		**09.40 - 10.00** Monolithic free-space optical coupling devices in fused silica Daniel Talan Echarri, EPFL	**09.40 - 10.00** Rapid Prototyping of High-Efficiency Inertial Particle Sorting Microfluidic Device Using Femtosecond Laser Technology Annalisa Volpe, POLITECNICO DI BARI
9:45			
9:50			
9:55	**09.50 - 10.10** Surface quality assessment in femtosecond laser micromachining of glass under different ambient media Harish Chandra, INDIAN INSTITUTE OF TECHNOLOGY BOMBAY		
10:00		**10.00 - 10.20** Laser grooving of Copper for Microelectronics Shohei Matsushita, DISCO HI-TEC EUROPE	
10:05			
10:10			
10:15	**10.10 - 10.30** Micromachining of dielectrics and semiconductors with external pulse compression below 100fs Rainer Kling, BFH		
10:20			
10:25			
10:30			
10:35			
	10.40-11.00 Coffee Break		
	Ultra-short pulse laser processing 5	**Micro-machining**	**Manufacture of micro devices and systems 2**
11:00		**11:00 - 11:30** Ultrafast processing of transparent materials by selective absorption of microsecond laser pulse into transiently excited electrons Yusuke Ito, THE UNIVERSITY OF TOKYO	**11:00 - 11:20** Optimizing High-Throughput Laser Micro-Drilling Of Large Surfaces by Means of Optical Monitoring and Control Roberto Ocaña, TEKNIKER
11:05			
11:10	**11:00 - 11:30** Data-driven ultrashort pulse laser processing toward the next-generation of precision microfabrication Aiko Narazaki, AIST		
11:15			
11:20			**11:20 - 11:40** In situ X-ray phase contrast imaging of humping formation during laser welding of 316L stainless steel Elie Haddad, FRAUNHOFER ILT (S)
11:25			
11:30		**11:30 - 11:50** Precision ultra short pulse micro glass-metal welding Lukas Günther, SCHOTT AG	
11:35	**11:30 - 11:50** Femtosecond Laser-Induced Time-Dependent Modifications: Enhancing Adhesion in Chromium Thin Superficial Layer Diego Gallego, CEIT (S)		
11:40			**11:40 - 12:00** Probe-beam deflection diagnostic of shock waves generated during Direct Laser Inference Patterning Tobias Steege, FRAUNHOFER IWS
11:45			
11:50		**11:50 - 12:10** Machine Learning Based Prediction of Laser Sintered Ceramic Microstructures Hai Xiao, CLEMSON UNIVERSITY	
11:55	**11:50 - 12:10** Ultrashort pulse Laser processing of complex designs on a roll to roll thanks to advanced synchronization of optical and mechanical parameters. Marc Décultot, LASEA		
12:00			**12:00 - 12:20** Hide and Seek: Using masked vision transformer to detect surface structures on laser polished metals Julius Neuß, FRAUNHOFER ILT
12:05			
12:10		**12:10 - 12:30** Effect of femtosecond laser interaction with partially silver-doped glass substrate Miyuka Kono, CHIBA UNIVERSITY (S)	
12:15	**12:10 - 12:30** Ultra-short pulsed laser welded-and-cut glass support pillars for vacuum insulated glazing Tara Van Abeelen, HERIOT WATT UNIVERISITY (S)		
12:20			**12:20 - 12:40** In-situ monitoring of interface status and ablation depth in ultrafast laser drilling of heterogeneous material Tao Sun, XI'AN JIAOTONG UNIVERSITY (S)
12:25			
12:30		**12:30 - 12:50** A novel 3D laser micro-fabrication approach for efficient processing of photosensitive glasses Florin Jipa, INFLPR	
12:35	**12:30 - 12:50** Ultrafast laser drilling of through via in gap materials using burst-mode operation Pierre Balage, UNIVERSITÉ DE BORDEAUX (S)		
12:40			
12:45			
	12.50-13.20 Awards ceremony and closing remarks		