

PROGRESS IN ULTRAFAST MODIFICATIONS OF MATERIALS (EPFL, Neuchâtel 2016)

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Day 1 - Monday - 13/06	Day 2 - Tuesday - 14/06	Day 3 - Wednesday - 15/06	Day 4 - Thursday - 16/06
Session: Fundamentals	Session: Waveguides & Photonics (I)	Session: Waveguides & Photonics (III)	Session: New process & applications
08:30 Energy balance at the surface of dielectrics excited by femtosecond laser pulses <i>Olivier Utéza, Univ. Aix-Marseille, France</i>	Photonic reformatting for precision near-IR radial velocity spectrographs <i>Robert Thomson, Heriot Watt Univ., UK</i>	Monolithic fabrication of nonlinear integrated optical elements in lithium niobate by direct femtosecond laser lithography <i>Cornelia Denz, Univ. of Muenster, Germany</i>	Self-assembled nanostructure inside various materials <i>Yasuhiro Shimotsuma, Kyoto University, Japan</i>
09:00 Elementary processes involved in laser induced modification of dielectrics <i>Stéphane Guizard, CEA, France</i>	Three-dimensional fabrication of waveguide structures in dielectric crystals <i>Feng Chen, Shandong Univ., China</i>	Recent advances in ultrafast laser inscribed crystalline waveguide lasers <i>Thomas Calmano, Univ. of Hamburg, Germany</i>	Ferroelectric domain engineering with femtosecond pulses <i>Wieslaw Krolikowski, Australia National University, Australia</i>
09:30 Sculptured ultrashort laser wavepackets applied in materials engineering <i>Stelios Tzortzakis, FORTH, Greece</i>	Writing of depressed cladding waveguides in dielectrics with shaped femtosecond laser pulses <i>Ya Cheng, SIOM, China</i>	Femtosecond-laser induced compositional changes in glasses for photonics applications <i>Javier Solis, CSIC, Spain</i>	Femtosecond laser fabrication: from structural to functional <i>Feng Chen, X'ian Univ., China</i>
10:00 Coffee break (main hall)			
Session: Bessel and structured beams	Session: Waveguides & Photonics (II)	Session: Young Investigators oral talks	Session: Innovative processes & their applications (II)
10:30 Tailored Bessel beam using a binary phase plate: Applications to fabrication of high-quality, high-aspect-ratio through Si Vias (TSVs) <i>Koji Sugioka, RIKEN, Japan</i>	Heterogeneous 3D guided wave devices for real world applications <i>Mike Withford, Macquarie Univ., Australia</i>	10: 30 Integrated optofluidic device for high-throughput 3D microscopy of cellular spheroids / <i>Francesca Bragheri, IFN-CNR, Italy</i> 10:50 Femtosecond laser-induced nonlinear second-harmonic beam splitter in lithium niobate / <i>Joerg Imbrock, Univ. of Muenster, Germany</i>	Bulk and surface processing of silicon by subnanosecond laser pulses <i>Shigeki Matsuo, Shibaura Inst. of Technology, Japan</i>
11:00 Structural modifications in transparent materials by femtosecond laser Bessel beam <i>Wataru Watanabe, Ritsumeikan Univ., Japan</i>	Topological Photonics <i>Alexander Szameit, Univ. of Jena, Germany</i>	11:10 On the search of new worlds using photonic devices / <i>Alexander Ariola, Macquarie Univ., Australia</i>	Massively parallel femtosecond laser processing <i>Yoshio Hayazaki, Utsunomiya Univ., Japan</i>
11:30 Femtosecond laser-induced micro-explosions with high aspect ratio in transparent materials <i>François Courvoisier, FEMTO-ST, France</i>	Femtosecond laser structuring of transparent materials for biological and quantum photonic applications <i>Roberto Osellame, IFN-CNR, Italy</i>	11: 30 Photonics platforms inscribed in diamond with femtosecond laser / <i>Belén Sotillo, Politecnico di Milano, Italy</i> 11: 50 Bessel pulse excitation of glass: nanostructuring and ultrafast dynamics / <i>Manoj Buhari, Univ. Jean Monnet, France</i>	Single shot laser writing with sub-nanosecond burst of femtosecond pulses <i>Andrey Okhrimchuk, Mendeleev Univ. of Chemical Tech., Russia</i>
12:00 Femtosecond laser structuring with structured light <i>Yannick Petit, Univ. of Bordeaux, France</i>	Femtosecond laser processing of diamond <i>Patrick Salter, Oxford University, UK</i>	LACUS: Lausanne Center for Ultrafast Sciences <i>Majed Chergui, EPFL, Switzerland</i>	New insights on femtosecond laser interaction with silica: from unexpected observations to new applications <i>Yves Bellouard, EPFL, Switzerland</i>
12:30 14:00 Lunches at the 4th Floor of MicroCity - Restaurant			
Session: Innovative processes & their applications (I)	Session: Nanofabrication & particle manipulation	Outing	Lab tours I
14:00 Ultrafast laser lithography as mesoscale 4D printing <i>Mangirdas Malinauskas, Vilnius Univ., Lithuania</i>	Functional 3D nanostructures <i>Maria Farsari, FORTH, Greece</i>		
14:30 Ablation of dielectric, semiconductor and metal surfaces at oblique angles of incidence and its application for profiling ultraintense laser beams <i>Pavel Polynkin, Univ. of Arizona, USA</i>	Laser Printing of Nanoparticles for Applications in Nanophotonics <i>Boris Chichkov, LZH, Germany</i>		
15:00 Femtosecond-laser generated nanostructures for surface enhanced spectroscopy and particle physics <i>Ruediger Grunwald, Max Born Institute, Germany</i>	Particle manipulation in femtosecond-laser-inscribed devices; microfluidics and optical forces <i>Lynn Paterson, Heriot Watt University, GB</i>		
15:30 Pulsed Laser Assisted Generation of Novel Materials for Organic Photovoltaics and Tissue Engineering Applications <i>Emanouil Stratakis, FORTH, Greece</i>	Canceled: Femtosecond laser 3D nanoprinting for functional devices <i>Hong Bo Sun, Jilin Univ., China</i>	Lab tours II	
16:00 Coffee break (main hall)			
16:30 Poster evening (Wine tasting) , Get together party	Session: Microscopy and observation methods Spatial frequency modulation for imaging: enhanced imaging opportunities for visualizing material modification processes <i>Jeff Squier, Colorado School of Mines, USA</i>	Banquet	Version as of 12.06.2016
	17:00 Time-resolved microscopy in ultrashort pulse laser processing of glass – the role of transient processes <i>Stefan Nolte, Univ. of Jena, Germany</i>		