

ISOT - 14-16 October 2015

Wednesday 14th		Thursday 15th		Friday 16th		
07:30	Registration opens / Conference package pickup in main hall	Thursday 15th		Friday 16th		
08:15	Official opening / Welcome address / Practical information in Amphitheatre	08:30	Plenary session 3 (Amphitheatre): Chair: Jeff Squier, Colorado School of Mines	08:30	Plenary session 5 (Amphitheatre): Chair: Weichich Wang, Univ. Of Washington	
08:30	Plenary session 1 (Amphitheatre): Chair: Yves Bellouard, EPFL	09:15	Daniel Razansky - "Five-dimensional optoacoustic tomography as a novel tool for high-performance functional and molecular imaging"	09:00	Tetsuo Kishi - "On-chip fabrication of glass sphere laser"	
	Satoshi Kawata - Optical 3D nano-fabrication: top-down and self-growth approaches		Yanne K. Chembo - "Brillouin scattering in crystalline whispering gallery mode resonators"			
09:15	Ulrike Wallrabe - "Adaptive micro axicons for laser and life science applications"	09:15	Nicholas Boechler - "Optoacoustic characterization of the dynamics of microscale ordered granular media"	09:30	Yves-Alain Peter - "Optical micro resonators for sensing, filtering and light emission"	
09:45	Robert Thomson - "Astrophotonics" - the application of photonic technologies to astronomical instruments"	09:45	Daniel Lanzillotti-Kimura - "Optophonic resonators based on topological design"	10:00	Gleb Vdovin - "Deformable mirrors: current state and future developments"	
10:15	Coffee break/Welcome desk in main hall	10:15	Coffee break and welcome desk in the main hall	10:30	Coffee break and welcome desk in main hall	
10:45	Martynas Beresna - "Printable optics by ultrafast laser assisted nanostructuring of glass"	10:45	Oliver Wright - "Extraordinary applications of acoustic metamaterials"	11:00	Craig Arnold - "Tunable acoustic gradient index lenses for new methods in machine vision and manufacturing"	
11:15	Session - System fabrication using femtosecond laser processing (Grande salle B1 303) Chair: Martynas Beresna, Univ. Of Southampton	11:15	Hyungsuck Cho - Special Session "Optomechanics for biomedical optical imaging"	11:30	Session Tunable optics (Amphi) Chair: Craig Arnold, Princeton Univ.	
	Session - MOEMS (Amphi) Chair: Ulrike Wallrabe, Univ. of Freiburg		Special Session - Optomechanics for Bio-Medical Applications - Part I (Amphi) Chair: Yeung Yam, CHUK		Special Session - Optomechanics for Bio-Medical Applications Part II (Grande Salle B1 303) Chair: Hyungsuck Cho, KAIST	
11:15	Eric Mottay - "Advanced mechanical micro-processing with ultrafast lasers"	11:30	Session - Fabrication and processing (Grande salle B1 303) Chair: Philippe Lutz, FEMTO-ST	11:30	Emina Ibrahimovic, Xiaodong Tao, Marc Reing, Qingge Li and Joel Kubby - "Deep tissue wavefront estimation for sensorless aberration correction"	
11:30	Francesca Bragheri - "Femtosecond laser fabrication of optofluidic devices for single cell manipulation"	11:30	Sören Zimmermann, Alexander van Düllen, Markus Wieghaus and Sergej Fatikov - "Processing of graphene combining optical detection and scanning probe lithography"	11:45	Frederic Zamkotsian, Patrick Lanzoni, Michael Canonica, Wilfried Noell and Sebastien Lani - "Large micro-mirror arrays: key components in future space instruments for universe and earth observation"	
11:45	Satoshi Hasegawa and Yoshio Hayasaki - "Holographic vector-wave femtosecond laser processing for fabrication of orientation controlled nanostructures"	11:45	Armandas Balčytis, Davit Hakobyan, Martynas Gabalis, Albertas Žukauskas, Darius Urbonas, Mangirdas Malinauskas, Raimondas Petruškevičius, Etienne Brasselet and Saulius Juodkazis - "3D micro-optical elements for generation of tightly focused vortex beams"	12:00	Ryoichi Kuwano, Tsuyoshi Tokunaga, Sho Morita, Yuta Okane and Yukiotsi Otani - "An enclosed variable focusing lens for remote welding"	
12:00	Noorfadzina Mamat, Kanty Rabenorosoa, Cedric Clevy, Philippe Lutz and Huikai Xie - "Multiphysics & parallel kinematics modeling of a 3DOF MEMS mirror"	12:00	Kenji Maruno, Masaki Michihata, Yauhiro Mizutani and Yasuhiro Takaya - "On-machine measurement of cutting tool edge profile by detecting fluorescence from cutting fluid"	12:15	HyungTae Kim, Kyeongyong Cho, Seungtaek Kim, Jongseok Kim, Kyungchan Jin and Sungho Lee - "Rapid automatic lighting control of a mixed source for image acquisition using derivative optimum methods"	
12:45	Lunch (4th Floor MicroCity restaurant)	12:15	Yunpeng Feng and Haobo Cheng - "Investigation on tool function and removal characters for bonnet surfacing"	12:45	Lunch (4th Floor Microcity Restaurant)	
13:45	Plenary session 2: Chair: Rainer Tutsch, Braunschweig Univ. In Amphi	12:45	Lunch (4th Floor MicroCity restaurant)	14:00	LAB TOUR / EPFL MicroCity / CSEM	
14:30	Demetri Psaltis - "Learning from examples in optical imaging"	14:00	Plenary session 4: Chair: Robert Thomson, Heriot Watt (Amphi)			
15:15	Wolfgang Osten - "Inverse Problems in Optical Metrology: Exemplary Solving Strategies"	14:45	Ya Cheng - "Femtosecond laser 3D nano-structuring enabled by far-field excitation of plasmonic waves in bulk glasses"			
		14:45	Jeff Squier - "Combining spatial temporal focusing and spatial light modulation: a new paradigm for femtosecond micromachining platforms"			
15:15	Michaël Unser - "Sparsity and inverse problems in Optics"	15:30	Yen-Hsun Su - "Hydrogen generation of Cu2O nanoparticles/ MnO-MnO2 nanorods heterojunction supported on sonochemical-assisted synthesized few-layer graphene in water-splitting photocathode"			
16:00	Coffee break/Welcome desk in main hall	16:00	Coffee break and welcome desk in the main hall			
16:30	Poster Session / Industrial Exhibit	16:00	Session - Progress in microscopy and imaging (Amphi) Chair: Yukiotsi Otani, Utsunomiya Univ.			Session - Optomechanics sensing (Grande Salle B1 303) Chair: Yves-Alain Peter, Ecole Polytechnique de Montréal
		16:30	Yasuhiro Mizutani - "Fluorescence microscope by using computational ghost imaging"			Christophe Collette, Pierre Lambert, Kurt Artoos, Sylvain Hellegouarch and Lionel Fueyo Roza - "Linear encoder low frequency inertial sensor"
		16:45	Yasuhiro Arai - "Evaluation of micro structure by fusion of three dimensional shape measurement and ultimate analysis using SEM"			Bilal Komati, Cédric Clévy, Nadège Courjal, Gwenn Ulliac and Philippe Lutz - "Microbotic station for nano-optical component assembly"
		17:00	Le Cui, Naresh Marturi, Eric Marchand, Soukalo Dembélé and Nadine Piat - "Closed-loop autofocus scheme for scanning electron microscope"			Wei-Chih Wang, Tien-Hau Chnag, Chieung Tsui and Benjamin Estroff - "Platform-based shear force sensor"
		17:15	Seungtaek Kim, HyungTae Kim, Young June Cho and Taejoong Eom - "Efficient trigger signal generation from wasted backward amplified stimulated emission at optical amplifiers for optical coherence tomography"	Muhammad Ayaz Shirazi, Danish Khan, Joonyoung Bang, Sooin Park and Min Young Kim - "A multi-view stereo based 3D hand-held scanning system using visual-inertial navigation and structured light"		
		17:30	Shuhei Shibata, Yoshio Hayasaki, Yukiotsi Otani and Toyohiko Yatagai - "High precision Stokes polarimetry for scattering light using wide dynamic range intensity detector"	Rainer Tutsch, Hanno Dierke and Sida Han - "Speckle reduction for a laser light sectioning sensor"		
		17:45	Quoc Hung Phan and Yu Lung Lo - "An application of Mueller matrix polarimetry for characterising properties of thin film with surface roughness"	Abbasali D. Tezerjani, Mehran Mehrandezh and Raman Paranjape - "Defect detection in pipes using a mobile laser optics technology and digital geometry"		
		18:00	HyungTae Kim, Seungtaek Kim, Jongseok Kim, Kyungchan Jin and Hongseok Kim - "Generating selected color using RGB, auxiliary lights and simplex search"			
19:30	Welcome reception	19:30	Conference dinner - Hôtel du Peyrou			