

Conference Program

Day 1 (June 8, 2023) (Thursday)			
09:00	09:45	Registration	
09:45	10:00	Opening remarks	
Session 1 / Beam shaping			
10:00	10:25	Yoshio Hayasaki	<i>Axial-beam shaping for holographic laser processing of transparent materials</i>
10:25	10:50	François Courvoisier	<i>Insights into the microphysics of ultrafast Bessel beam interaction with dielectrics</i>
10:50	11:15	Aiko Narazaki	<i>Data-driven ultrashort pulse laser processing based on fast laser modulation, in-process monitoring and AI optimization</i>
11:15	11:35		Coffee-break
Session 2 / Fundamentals interaction mechanisms			
11:35	12:00	Peter Kazansky	<i>The science and applications of ultrafast laser nanostructuring in transparent materials</i>
12:00	12:25	Jean-Philippe Colombier	<i>Laser-induced complexity at the nanoscale: from surface self-organization to nanogratings formation</i>
12:25	12:50	Yusuke Ito	<i>Ultrafast processing of dielectric materials by selective absorption of continuous-wave laser into transiently excited electrons</i>
12:50	14:15		LUNCH
Session 3 / Application and selective etching			
14:15	14:40	Koji Sugioka	<i>Fabrication of 3D microfluidic SERS chips enabling attomolar sensing by hybrid femtosecond laser processing</i>
14:40	15:05	Jiyeon Choi	<i>selective laser etching for microfluidic and photonic applications</i>
15:05	15:25	Mario Ochoa *	<i>On the mechanisms enabling polarisation-independent high etching rates in fused silica processed by ultrafast laser</i>
15:25	15:45	Calum Ross *	<i>Towards freeform fused silica optical fibre preforms via ultrafast laser induced selective chemical etching</i>
Session 4 / Poster			
16:00	18:00	POSTER SESSION + Drinks	
Day 2 (June 9, 2023) (Friday)			
Session 5 / Greetings Gratings!			
09:20	9:45	Matthieu Lancry	<i>Femtosecond Laser Direct Writing: How to make nanogratings in oxide glass?</i>
09:45	10:10	Peter Herman	<i>Shaping Ultrafast Laser Interaction – Manipulating 1D and 2D phase gratings in Optical Fiber</i>
10:10	10:35	Raman Kashyap	<i>Complex first order ultra-long fibre Bragg gratings written with nm resolution using a fs laser</i>
10:35	10:55		Coffee-break
Session 6 / Interaction with soft materials			
10:55	11:20	Sohei Yamada	<i>Microfabrication on biocompatible hydrogels using femtosecond laser direct writing.</i>
11:20	11:45	Mitsuhiro Terakawa	<i>Femtosecond laser-induced modification of soft materials into conductive structures</i>
11:45	12:10	Vygantas Mizeikis	<i>Femtosecond laser microfabrication of form birefringent structures using two-photon polymerization</i>
12:15			LUNCH (lunch box will be supplied)
	17:15		CONFERENCE EXCURSION
18:00	20:00	BANQUET	
Day 3 (June 10, 2023) (Saturday)			
Session 7 / Laser interaction with silicon and diamonds			
09:20	9:45	Onur Tokel	<i>Laser nano-lithography buried deep inside silicon wafers</i>
09:45	10:10	Stefan Nolte	<i>Ultrafast laser modifications of semiconductors</i>
10:10	10:35	Shane Eaton	<i>Laser and ion fabrication of quantum photonics in diamond</i>
10:35	11:00	Yasuhiko Shimotsuma	<i>Preferential orientation of NV center by the femtosecond laser pulses</i>
11:00	11:20		Coffee-break
Session 8 / Laser interaction with dielectrics			
11:20	11:45	Saulius Juodkazis	<i>Micro-Optics out of Crystals</i>
11:45	12:10	Yannick Petit	<i>Laser inscription of integrated architectures in photosensitive glasses</i>
12:10	12:35	Toney Fernandez	<i>Deterministic waveguide design in recomposed amorphous media</i>
12:35	13:00	Dezhi Tan	<i>Ultrafast laser direct writing of bandgap-tunable perovskite nanocrystals in glass</i>
13:00	14:15		LUNCH
Session 9 / Applications			
14:15	14:40	Hirofumi Hidai	<i>Metal sphere manipulation by laser irradiation in glass</i>
14:40	15:05	Mizue Mizoshiri	<i>Direct writing of metal patterns using glyoxylic acid metal complex ink by femtosecond laser pulse-induced thermochemical reaction</i>
15:05	15:30	Roberto Osellame	<i>Femtosecond laser writing for advanced microsystems in transparent materials</i>
15:30	15:55	Ya Cheng	<i>Fabrication of an ultraviolet photochemical reactor in fused silica using a femtosecond laser</i>
15:55	16:20	Yves Bellouard	<i>On the use of femtosecond laser to tune materials properties</i>
16:20	16:40		Farewell coffee

invited 00:25

Contribu 00:20