

Advanced fibre laser and coherent source as tools for society, manufacturing and lifescience

Agenda COST Meeting Jena

Monday

09:00 – 09:30	Introduction		
	Stefano Taccheo, Kay Schuster		30'
09:30 – 11:00	WG 1		
09:30 – 10:00	Thomas Schreiber Germany	High power single-mode Yb-doped fibers and its scaling to multi-kW average power levels	30'
10:00 – 10:15	Laetitia Petit Finland	Nanoparticles containing glasses prepared using direct doping method	15'
10:15 – 10:30	Frédéric Désévéday France	Fabrication and characterization of step-index tellurite fibers with varying numerical aperture for near- and mid-infrared nonlinear optics	15'
10:30 – 10:45	Maria Rita Cicconi Germany	Cerium/aluminum correlation in aluminosilicate glasses and silica fiber preforms: implications on structural and optical properties	15'
10:45 – 11:00	Laetitia Petit Finland	Irradiation with alpha particles of Yb ³⁺ and Er ³⁺ co-doped phosphate glasses	15'
11:00 – 11:30	Coffee Break		30'
11:30 – 13:00	WG 1		
11:30 – 11:45	Thomas Schreiber Germany	Fluorescence Lifetime Imaging (FLIM) and Micro Spectroscopy of Yb-doped materials	15'
11:45 – 12:00	Susana Silva Portugal	Temperature Sensor based on a Suspended-web Microstructured Fiber	15'
12:00 – 12:15	Brana Jelenković Serbia	Photoluminescence and laser behavior of (Y,Gd)O ₂ : Eu, Nd, Yb ceramics	15'
12:15 – 12:30	Joris Lousteau UK	Tellurite glasses and fibres for the development of coherent Mid-IR supercontinuum source	15'
12:30 – 12:45	Ivan Petryshynets Slovakia	Improve of magnetic properties of ferritic Fe-Si steels by pulse and continuous fiber laser processing	15'
12:45 – 13:00	Christos Grivas Sweden	A tunable nanocavity fiber laser based on hybrid halide perovskite nanocrystals	15'
13:00 – 14:00	Lunch		60'
14:00 – 15:30	WG 1 / WG 2		
14:00 – 14:15	Daniel Milanese Italy	Advances in bioresorbable optical fibers for light delivery and sensing	15'
14:15 – 14:30	Slawomir Sujecki Poland	Progress of Round Robin on fibre laser modelling	15'
14:30 – 14:45	Pavel Peterka Czech Republic	Numerical modelling of pump absorption in double-clad active fibers: Overview of recent progress	15'
14:45 – 15:00	Fei Yu UK	High-power acetylene hollow fiber laser at 3 μm wavelength	15'
15:00 – 15:15	Pavel Koška	Mode-instability induced Bragg gratings in fiber lasers:	15'

	Czech Republic	numerical modelling of their reflectivity	
15:15 – 15:30	Tamara M. Knyazyan Armenia	Wavelength-scale electrodynamic modelling of optical characteristics of DFB fiber laser by the method of single expression	
15:30 – 16:00	Coffee Break		30'
16:00 – 17:15	WG 2		
16:00 – 16:15	Robert Lindberg Sweden	Controlling the mode-locked regime of an Er-doped All Polarization-maintaining Fiber Laser	15'
16:15 – 16:30	Cesar Jauregi Germany	Mitigation of mode instabilities in high power fiber laser systems	15'
16:30 – 16:45	Tobias Tiess Germany	Independently tunable dual-wavelength fiber laser based on a discrete fiber Bragg grating array	15'
16:45 – 17:00	Mauro Pereira UK	The Linewidth of MIR Intersubband Light Sources	15'
17:30 – 22:00	Start to social event + dinner	Kay Schuster	4 – 5 h

Tuesday

09:00 – 09:30	WG 2		
09:00 – 09:15	Nikolai Tolstik Norway	Recent progress in development of mode-locked holmium fiber laser	15'
09:15 – 09:30	Michael Duparré Germany	Mode Analysis of Fiber Beams Using Digital Holograms - Concept and Applications	15'
09:30 – 10:00	WG 3		
09:30 – 09:45	Tibor Berceli Hungary	Fiber laser applications for free space optical links	15'
09:45 – 10:00	Abreu-Afonso Javier Spain	Interferometric Measurement of Chromatic Dispersion by Synchronized Control of Supercontinuum Pulse Overlapping	15'
10:00 – 11:00	ECI / WR		
10:00 – 10:15	Ramona Galatus Romania	Applications with fluorescent fibers	15'
10:15 – 10:30	Fedia Ben Slimen UK	Thulium doped germanate glasses and fibres for 2 µm lasers and amplifiers	15'
10:30 – 10:45	Giulio Gorni Spain	Oxyfluoride nano-glass-ceramics doped with rare-earth ions: bulk and fibres	15'
10:45 – 11:00	Jacek Zmojda Poland	Photoluminescence of Antimony-Germanate Glass Nanocomposites	15'
11:00 – 11:30	Coffee Break		30'
11:30 – 13:00	ECI / WR		
11:30 – 11:45	Daniil Zhikotov Croatia	Fabrication and Coating of Different Types of Optical Microcavities	15'
11:45 – 12:00	Matej Komanec Czech Republic	Results from his STSM: Towards environmentally-insensitive fiber interferometers up to MIR	15'
12:00 – 12:15	Roberta Ramponi Italy	Fabrication of high aspect-ratio microchannels on diamond surface by pulsed Bessel beams laser machining	15'
12:15 – 12:30	Damiano Masella Italy	SiO ₂ -SnO ₂ :Er ³⁺ glass ceramics for photonics: advances and perspectives	15'
12:30 – 12:45	Nora Abdellaoui France	Rare-earth doped chalcogenide glasses for mid-IR sensor applications	15'
13:00 – 14:00	Lunch		60'
14:00 – 15:30	ECI / WR resentations + SIG		

14:00 – 14:15	Elena Romanova Russian Federation	Design of sensing elements for the mid-IR spectroscopy on the base of electromagnetic theory of optical fibers	15'
14:15 – 14:30	Gerhard Schötz Germany	Fiber laser activities at Heraeus Quarzglas	15'
14:30 – 14:45	Francis Berghmans Belgium	ACTPHAST – A shining light for Photonics Innovation in Europe	15'
15:00 – 15:30	Coffee Break		30'
15:30 – 17:30	Final discussion		120'

Wednesday

09:00 – 11:00	Stefano Taccheo / MC		120'
15:00 – 15:30	Coffee Break		30'
11:30 – 13:00	Stefano Taccheo / MC		90'
13:00 – 14:00	Lunch		60'
End of Meeting			