Symposium on Future Prospects for Photonics Imaging

Silja Symphony Boat Helsinki-Stockholm-Helsinki

November 5-7, 2019







Tuesday November 5 - Conference center, Deck 6

Tuesday November 5

12:30-13:00	Registration
13:00	Boarding
13:15-13:30	Welcome and useful information
13:30-14:30	Sylvain Gigan – Sorbonne University, France "A sneak peek with light into opaque materials"
14:30-15:30	Tomáš Čižmár – Leibniz Institute of Photonic Technology, Germany "Holographic Endoscopy for deep tissue imaging"
15:30-16:00	Coffee break
16:00-17:00	Adrian Podoleanu – University of Kent, UK "Future Prospects for optical coherence tomography"
17:00	Boat leaves
17:00-18:00	Oliver Graydon – Nature Photonics, UK "Trends and Advice in Scientific Publishing"
18:00-19:00	Alex Papayanis – National Technical University of Athens, Greece "Optics, Photonics and Imaging: from biosensing to air pollution monitoring using laser techniques"
19:00-20:00	Poster session with small snacks and drinks
21:00	Dinner at Tavolata Restaurant (Deck 6)



Wednesday November 6

07:00-09:00	Breakfast at Grand buffet restaurant (Deck 6)
09:00-10:00	Radek Lapkiewicz – Warsaw University, Poland
	"What can photon pair detection do for super-resolution microscopy
	and phase imaging?"
10:00-11:00	Sven Ramelow – Humboldt University, Germany
	"Microscopy and OCT with undetected Mid-IR photons"
11:00-16:00	Free time in Stockholm
16:30	Boat leaves
21:00	Dinner at Tavolata restaurant (Desk 6)

Thursday November 7

07:00-09:00	Breakfast at Grand buffet restaurant (Deck 6)
10:30	Arrival in Helsinki

Posters Presentations

Mohammad AL Lakki - Blackbody's far field coherence

Shambhavee Annurakshita – Towards in situ third-harmonic generation imaging of photopolymerized microstructures

Benjamin O. Asamoah - Angular spectrum analysis of second harmonic generation in 2D bull's eye structure

Vili Auvinen - Effects of nanofibrillated cellulose hydrogels on adipose tissue extract and hepatocellular carcinoma cell spheroids in freeze-drying

Alex Berdin - Photoactive liquid crystal elastomers for continuously tunable distributed feedback dye lasers

Abhiroop Chellu - Effect of novel surface passivation on the optical properties of InAs/GaAs QDs close to planar (100) surfaces

Xiaoqi Cui - Ultrafast vortex/vector fiber lasers based on all-fiber mode converters

Nekhel Das – Photoluminescence enhancement by hybrid plasmonic nanodisks arrays

Zahra Eslami – Low noise mid-infrared supercontinuum generation in multimode fibers

Andrei Fedotov – Active helical tapered fiber

Henry Fernandez - Hybrid light-matter states in 2-dimensional semiconductors coupled to light fields

Marina Fetisova – Microdisk quantum dot lasers for biosensing application

Dipa Gwaldas Ghindani - Enhanced terahertz emission bandwidth from the plasmonic nano-structured photoconductive antenna by manipulating carrier dynamics of the semiconducting substrate

Mohsin Habib - Hyperbolic meta-antenna for enhanced spontaneous emission

Rebecca Heilmann - Dielectric nanoparticle arrays - tuning the light-matter interaction

Markus Hiekkamäki - Unitary transformations of spatial modes for quantum experiments

Elena Ilina - Aberration-insensitive field-interferometric ghost-imaging microscopy

Jussi Isokuortti - Suppressing reverse energy transfer for efficient TTA upconversion

Ramsha Khan - Effect of annealing on photocarrier dynamics in ALD TiO2 thin film electrodes

Antti Kiviniemi - Speckle-free imaging with concentric rotating coherent scattering microscopy

Tommi Mikkonen - Supercontinuum-based photoacoustic gas sensing

Henrik Mäntynen - Absorption modeling with FMM, FEM, and FDTD

Henri Pesonen - Effect of the resonance gratings on the GSM pulse trains

Hoy-My Phung - Membrane external-cavity surface-emitting lasers (MECSELs) for an emission wavelength regime around 820 nm

Prabudeva Ramu - III-V semiconductor based ultra-thin and flexible solar cells

Igor Reduto - Formation of submicron structures by RIE & chemical etching of TEFI processed glasses

Jussi Rossi - Broadband electromagnetic radiation detector based on photoacoustic effect

Lauri Salmela - Predicting optical rogue solitons in supercontinuum generation using machine learning

Anastasiia Sorokina - Advantages and limitations of the different modeling approaches for characterization of light emission from III-V nanowires

Timo Stolt - Engineering nonlinear optical processes in plasmonic metasurfaces with surface lattice resonances