

VISION SCIENCE
BIOPHOTONICS

OPTICAL MATERIALS AND PHENOMENA
LASER PHYSICS AND SPECTROSCOPY

Thursday, 12th of April, Jelgavas street 1, The Academic Centre of University of Latvia, Room 702	
8:30 – 9:00	Registration and coffee
9:00 – 9:30	Opening session
9:30 – 10:20	Vision Science: Invited speaker: Linda Lundström Visual Optics: Focus on the Periphery
10:20 – 11:10	Vision Science: Invited speaker: Varis Karitans Simulation of Vitreous Floaters using an Eye Model with Microfluidics System
	Student Talks: Vision science
11:15 – 11:30	Sanita Liduma : Changes in visual acuity, refraction and pachymetry in various stages of keratoconus after cross-linking operations
11:30 – 11:45	Renars Truksa : Development of realtime acquisition system for evaluation of potential melanopic dose and cone excitation in environmental light
11:45 – 12:00	Zane Jansone : Patient color vision sensitivity changes before and after cataract surgery
12:00 – 13:00	Lunch
13:00 – 13:50	Optical materials and phenomena: Invited speaker: Edgars Nitiss All-organic optical waveguide devices for communication and sensing applications
	Student Talks: Optical materials and phenomena
13:50 – 14:05	Inga Jonane : Structural investigations of thermochromic phase transition in copper molybdate
14:05 – 14:20	Meldra Kemere : Energy transfer in Dy ³⁺ /Eu ³⁺ co-doped glasses and glass-ceramics containing fluoride nanocrystallites
14:20 – 14:35	Andris Antuzevics : Multisite formation in Gd ³⁺ and Eu ³⁺ doped SrF ₂ nanoparticles
14:35 – 14:50	Julija Pervenecka : Photoluminescence and Amplified Spontaneous Emission of Neat 4H-Pyran Derivative Containing Thin Films
14:50 – 15:00	Short break
15:00 – 16:30	Poster session (Vis + OptMat)
	Evening activities

Friday, 13th of April, Jelgavas street 1, The Academic Centre of University of Latvia, Room 702	
9:00 – 9:50	Biophotonics: Invited speaker: Igor Meglinski Application of optical tweezers for examination of mutual interaction of red blood cells with nano-materials
	Student Talks: Biophotonics
9:50 – 10:05	Marta Lange : Non-invasive optical skin evaluation device for cancer screening
10:05 – 10:20	Emilija Vija Plorina : Method for skin disease classification using skin autofluorescence imaging
10:20 – 10:40	Coffee break
10:40– 11:30	Laser Physics and spectroscopy: Invited speaker: Florian Gahbauer Spin Detection using Nitrogen-Vacancy Centres in Diamond
	Student Talks: Laser Physics and Spectroscopy
11:30 – 11:45	Arturs Bundulis : Third-order nonlinear optical properties of thin organic films and solutions
11:45 – 12:00	Darya Menailava : Theoretical insights into the electronic structure and low-lying states of the uranium nitride molecule
12:00 – 12:15	Annija Lucija Fridmane : Spectroscopic studies of bismuth containing electrodeless light sources working in self-modulating regime.
12:15 – 12:30	Sandhra Mirella Valdma : Single-shot fiber dispersion characterization with white light interferometry
12:30 – 12:45	Reinis Lazda : Measurement of ODMR signals from NV centers in diamond crystal, analysis of the signals
12:45 – 14:00	Lunch
14:00 – 15:30	Poster session (Bio+LasPhys)
	Closing Session
	Evening social event