

Developments in Optics and Communications 2024

02.05.2024 (room 301, UL House of Science, Jelgavas iela 3)	
9:45-10:15	Registration and opening remarks
10:15-12:00	Optical materials and phenomena
10:15-11:00	Arturs Bundulis "Quantum light sources: from novel materials to integrated quantum photonics"
11:00-11:20	Natalija Tetervenoka "Investigating the solution-processible organic cross-linkable materials for hole transport layer of OLED"
11:20-11:40	Kitija Alise Stucere "Sulfonyl functionalization for improving TADF rate in carbene-metal-amide complex"
11:40-12:00	Anete Berzina "Third- and higher order nonlinear optical properties of organic materials"
12:00-13:00	Lunch break
13:00-14:00	Industry talk - Jurgis Grube from Light Guide Optics "Multimode fused silica optical fibers and fiber bundles at Lightguide"
14:00-16:30	Poster session (all posters) + coffee break
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9:45-10:00	
10:00-12:05	Laser physics and spectroscopy / Biophotonics
10:00-10:45	Bejan Hamawandi "Design and synthesis of nanophotonic materials via chemical solution synthesis"
10:45-11:05	Emilija Vija Plorina "Autofluorescence imaging and autofluorescence photobleaching imaging of basal cell carcinoma lesions in basal cell nevus syndrome patients"
11:05-11:25	Kalvis Kalniņš "Study of semiconductor surface nanostructuring with vector laser beams"
11:25-11:45	Linda Serzane Sadovska "Splitting of magneto-optical double resonance absorption peaks at high RF intensity"
11:45-12:05	Daria Kachkina "Modeling Fermi resonans in CO2 molecule using maturnal coordinates"
12:05-13:00	Lunch break
13:00-14:00	Dace Siliņa "Creativity? Why?"
14:00-14:30	Coffee break
14:30-16:15	Vision science
14:30-15:15	Ilze Ceple " Visual functions in children with reading disorders"
15:15-15:35	Anastasija Kosona "Eye vergence training options"
15:35-15:55	Ieva Krastiņa "Common vision problems and their impact on user experience and performance in a VR environment"
15:55-16:15	Nicola Rizzieri "Myopia screening method based on computer vision analysis of retinal fundus pictures: The effect of image size"
16:15-16:30	Closing remarks