

PROGRAMME

Monday, 24th of August

	Session 1	Session chair/moderator — Janis Spigulis	
9:00-9:30 9:30-10:00 10:00-10:30 10:30-11:00	J.Spigulis. Opening. Biophotonics research in Riga: recent projects and results P.Andersen*. Optical Coherence Tomography for improved detection of melanoma A.Kamshilin*. Green-light imaging photoplethysmography as a sensitive instrument to measure microcirculation response to various stimuli G.Salerud*. Estimating blood oxygenation at macro- and microscopic levels using hyper spectral imaging		
11:00-11:30	Coffee break		
	Session 2	Session chair/moderator – Gōran Salerud	
11:30-12:00	M.Aalders*. Combined spectral imaging and finite difference modelling for ageing of bruises in child abuse		
12:00-12:20	A.Lihachev. Imaging of LED excited autofluorescence for skin lesions assessment		
12:20-12:40	E.Kviesis-Kipge. Remote photoplethysmography device with adaptive illumination for skin microcirculation assessment		
12:40-13:00	M.Lange. Spectral imaging as a tool for the evaluation of skin cancer post-operative scars		
13:00-14:00	Lunch break		
	Session 3	Session chair/moderator – Maurice Aalders	
14:00-14:20	A.Aglinska. Imaging photoplethysmography for evaluation of cutaneous sensory nerve fiber function		
14:20-14:40	Z.Marcinkevics. Imaging photoplethysmography for assessment of gum inflammation		
14:40-15:00	M.Tamosiunas. Assessment of Candida albicans biofilm growth by laser speckle contrast imaging		
15:00-15:30	B.Majaron*. Quantitative characterization of human skin by combining diffuse reflectance spectroscopy and photothermal radiometry		
15:30-16:00	Coffee break		
	Session 4	Session chair/moderator – Peter E. Andersen	
16:00-16:30		Raman microspectroscopy for non-invasive in vivo rier-related parameters of the stratum corneum	
16:30-16:50	N.Verdel. Noninvasive characterization of tattoos in human skin using diffuse reflectance spectroscopy and pulsed photothermal radiometry		
16:50-17:10	N.Zorina. Data processing analysis for remitted photon path length experimental measurements in human skin		

^{*)} invited talk

17:10-17:30 N.Zorina. Study of As and Tl high-frequency electrodeless lamps for Zeeman absorption spectroscopy

18:00-21:00 *Social event*

Tuesday, 25th of August

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	Session 5	Session chair/moderator – Boris Majaron	
9:00-9:30 9:30-10:00	R.Sroka*. Spectroscopy assisted point-of-care devices for clinical use I.Meglinski*. Brain imaging with dynamic light scattering at broken ergodicity conditions		
10:00-10:30 10:30-11:00	E.Borisova*. Multispectral fluorescence detection and imaging of skin tumours R.Pini*. Alzheimer's disease biomarkers inspected through Raman-based nano strategies		
11:00-11:30	Coffee break		
	Session 6	Session chair/moderator – Igor Meglinski	
11:30-12:00	V.Tuchin*. Improved biomedical imaging over a wide spectral range from UV to THz towards multimodality		
12:00-12:20 12:20-12:40	I.Lihacova. Optical multimodal non-invasive diagnostics of skin cancer D.Bliznuks. Deep learning model deploying on embedded skin cancer diagnostic device		
12:40-13:00	B.Cugmas. Selection of erythema index and sampling method for the objective erythema estimation in dogs with atopic dermatitis		
13:00-14:00	Lunch break		
	Session 7	Session chair/moderator – Ronald Sroka	
14:00-14:20	M.Huotari. Photoplethysmographic waves and their detailed pulse interval distribution analysis on Poincare plots before and after the sauna exposures		
14:20-14:40	G.Revalde. Acetone measurements in the exhaled air by the cavity ring-down spectrometry		
14:40-15:00	A.Skobelkina. Structural and photoluminescence properties of nanoparticles formed by pulsed laser ablation of silicon nanowire arrays		
15:00-15:20	E.Zherebcov. Fluorescence lifetime fine-needle optical biopsy of the hepatocellular carcinoma in murine model		
15:20-15:50	Coffee break		
	Session 8	Session chair/moderator - Valery Tuchin	
15:50-16:10	B.Gurevich. Choice of photodetector characteristics for acousto-optic devices for bioelectric signals processing		
16:10-16:30	B.Gurevich. Endoscopes for internal organs cancer diagnostics based on television and multispectral methods of image processing K.Zaichenko. Optimization of information presentation process by multispectral processing systems of biological objects images K.Zaichenko. Application of acousto-optic tunable filters in the devices of skin cancer diagnostics		
16:30-16:50			
16:50-17:10			