

## PROGRAMME

## Monday 24 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 – Peter E. Andersen		
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 brea	k		
	Session 3	Session chair/moderator – Maurice Aalders		
14:00-14:20	Z.Marcinkevics. In nerve fiber function	naging photoplethysmography for evaluation of cutaneous sensory		
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 brea	ık		
	Session 4	Session chair/moderator – Gōran Salerud		
16:00-16:30	M.Darvin*. Confocal Raman microspectroscopy for non-invasive in vivo determination of barrier-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			
17:10-17:30	N.Zorina. Study of As and Tl high-frequency electrodeless lamps for Zeeman absorption spectroscopy			
18:00-21:00	Social even	t		
*) invi	ited talk			

## Tuesday 25 August

	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			
16:30-16:50	K.Zaichenko. Optimization of information presentation process by multispectral processing systems of biological objects images			
16:50-17:10	K.Zaichenko. Application of acousto-optic tunable filters in the devices of skin cancer diagnostics			