

# 1<sup>st</sup> International symposium on visual physiology, environment, and perception (VisPEP2016)

## Programme

<b>Thursday, 6 October, 2016</b>		
<b>Room 701</b>		
	15:00-17:00	Meeting of the organizers
<b>Hall (ground floor)</b>		
16:00-18:00	Registration	
<b>Auditorium Magnum</b>		
18:00-18:05	Opening words from the organizers	
18:05-18:10	Opening words from the prof. Indriķis Muižnieks – rector of the University of Latvia	
18:10-18:20	Opening words from Ģirts Cimmermanis, Executive Officer of HOYA Corporation	
18:20-18:30	Opening words from Ieva Pranka – Executive Director of the Baltic-German University Liaison Office	
18:30-19:30	Keynote lecture*: <b>Visual Phenomena &amp; Optical Illusions</b> (Michael Bach)	
<b>Hall (first floor)</b>		
19:30-22:00	Welcome reception	
<b>Friday, 7 October, 2016</b>		
<b>Auditorium Magnum</b>		
<b>Session 1: Illusions and environment</b> (S.Fomins, K.Juraševska)		
9:00-9:20	<b>The after-effects of Müller-Lyer and Ponzo illusions in sensorimotor domain</b> (V.Lyakhovetskii, V.Karpinskaia)	
9:20-9:40	<b>Modelling foveated vision in Matlab image processing</b> (W.B.Kloke)	
9:40-10:00	<b>Motion induced blindness using increments and decrements</b> (W.W.Stine, P.A.Levesque, M.E.Lusignan, A.J.Kitt)	
10:00-10:20	<b>Range of comfortable brightness for self-luminous surfaces in architectural applications</b> (M.Reisinger)	
10:20-10:40	<b>Study of volumetric image depth perception for observing generic volumetric scenes</b> (K.Osmanis, I.Osmanis, G.Valters, M.Narels)	
10:40-11:00	Discussion	
<b>Room 107</b>		
11:00-11:30	Coffee break	
<b>Room 108</b>		
11:00-11:30	<b>Demonstration of True Volumetric 3D display (Lightspace Technologies)</b>	
<b>Auditorium Magnum</b>		
11:30-12:30	Keynote lecture*: <b>Visual acuity and contrast thresholds – Not trivial to measure</b> (Michael Bach)	
<b>Room 107</b>		
12:30-13:30	Lunch	
<b>Auditorium Magnum</b>		
<b>Poster session 1 (2 min presentations)</b> (S.Fomins)		
13:30-14:00	<b>Influence of discontinuity of filling on the strength of illusion of length</b>	

	(A.Bielevičius, T.Surkys, A.Bertulis, A.Bulatov) <b>P1-1</b>
	<b>Dependence of filled/unfilled illusion magnitude on the completeness of filling</b> (T.Surkys, A.Bulatov, L.Mickienė, I.Daugirdaitė) <b>P1-2</b>
	<b>Oppel-Kundt illusion magnitude changes evoked by the tilting of the filling element</b> (A.Bulatov, T.Surkys, N.Bulatova, P.Šimaitytė) <b>P1-3</b>
	<b>Superposition of differing structures in the Oppel-Kundt stimuli</b> (A.Bertulis, T.Surkys, A.Bulatov, J.Loginovič) <b>P1-4</b>
	<b>Illusory depth sense of colour images in “Virtual Reality” adapters using mobile phone</b> (K.Muižniece, M.Ozolinsh) <b>P1-5</b>
	<b>Chromatic sensitivity evaluation with static and dynamic color vision stimuli</b> (R.Trukša, K.Juraševska, A.Livzāne) <b>P1-6</b>
	<b>Metameric light sources: a recent paradigm for functional lighting*</b> (A.Petrulis, P.Vitta, R.Vaicekauskas) <b>P1-7</b>
	<b>Colorimetric and circadian light characteristics of Latvian sky</b> (S.Fomins, M.Ozoliņš) <b>P1-8</b>
	<b>Optical system with dynamic magnification</b> (M.Sobczak, A.Popiołek-Masajada) <b>P1-9</b>
	<b>Influence of object size on recognition time in mental rotation test</b> (L.Zariņa, J.Šķilters, V.Lyakhovetskii, G.Krūmiņa) <b>P1-10</b>
	<b>Visual search depending on the set size and number of targets</b> (I.Timrote, A.Anča, P.Vendiņa, B.Griķe, I.Cehanoviča, V.Lyakhovetskii) <b>P1-11</b>
	<b>Perceptual grouping in central and peripheral visual field</b> (I.Laicāne, J.Šķilters, V.Lyakhovetskii, A.Kūlīte, G.Krūmiņa) <b>P1-12</b>
	<b>The effect of emotional arousal environment on first graders reading</b> (A.S.Alekseeva, O.V.Lomtatidze, L.V.Zagumennova) <b>P1-13</b>
<b>Room 107</b>	
14:00-15:30	<b>Posters and Coffee break</b>
<b>Room 108</b>	
14:00-15:30	<b>Demonstration of True Volumetric 3D display (Lightspace Technologies)</b>
<b>Auditorium Magnum</b>	
<b>Session 2: Learning and visual perception</b> (J.Allik, I.Timrote)	
15:30-15:50	<b>Accommodation amplitude in school-age children</b> (G.Ikaunieks, M.Segliņa, K.Panke, G.Krūmiņa)
15:50-16:10	<b>Does binocular instability affect reaction times and procedural motor learning in developmental dyslexia?</b> (A.Brenk-Krakowska, A.Przekoracka-Krawczyk, P.Nawrot, P.Rusiak, R.Naskrecki)
16:10-16:30	<b>Interviewing children with reading difficulties about environmental factors influencing their reading performance*</b> (S.Breitenbach)
16:30-16:50	<b>Parameters affecting coherent motion perception</b> (E.Kassaliete, R.Trukša, A.Krastiņa, A.Petrova, I.Lācis)
16:50-17:10	<b>Effects of mental fatigue on visual grouping</b> (T.Pladere, D.Bete, J.Šķilters, G.Krūmiņa)
17:10-17:30	Discussion

Saturday, 8 October, 2016	
<b>Auditorium Magnum</b>	
<b>Session 3: Binocularity</b> (W.Jaschinski, I.Laicāne)	
9:00-9:30	<b>Review of fixation disparity: methods, findings, concepts</b> (W.Jaschinski)
9:30-10:00	<b>A new approach to fixation disparity: determining aligning prisms without using trial prism lenses</b> (O.Prenat)
10:00-10:20	<b>Effect of vision therapy on vergence response in accommodation and vergence problems</b> (I.Siliņa, A.Švede)
10:20-10:40	<b>Examining crowding using a real three-dimensional experimental setup*</b> (L.V.Eberhardt, A.Huckauf)
10:40-11:00	Discussion
<b>Room 107</b>	
11:00-11:30	Coffee break
<b>Room 108</b>	
11:00-11:30	<b>Demonstration of Hoya EyeGenius</b>
<b>Auditorium Magnum</b>	
11:30-12:30	Keynote lecture*: <b>Binocular coordination and binocular advantages in reading</b> (Stephanie Jainta)
<b>Room 107</b>	
12:30-13:30	Lunch
<b>Auditorium Magnum</b>	
<b>Poster session 2 (2 min presentations)</b> (A.Švede)	
13:30-14:00	<b>Open-view system for measurements of accommodation and vergence</b> (A.Švede, M.Sobczak, K.Panke, S.Fomins, R.Trukša, G.Krūmiņa) <b>P2-1</b>
	<b>Binocular coordination in reading when changing background brightness</b> (A.Köpsel, A.Huckauf) <b>P2-2</b>
	<b>Differences in cortical activation between pure volitional saccades and pure volitional vergences</b> (M.Wojtczak-Kwaśniewska, A.Przekoracka-Krawczyk, R.van der Lubbe) <b>P2-3</b>
	<b>The time course of adaptation depending on subject's refraction</b> (A.Petrova, E.Eldmane, P.Cikmačš) <b>P2-4</b>
	<b>Optimal optotype structure for monitoring visual acuity</b> (G.Rozhkova, D.Lebedev, M.Gracheva, S.Rychkova) <b>P2-5</b>
	<b>Mobile devices for studies of binocular summation of colour stimuli</b> (V.Zavjalova, M.Ozolinsh, O.Danilenko) <b>P2-6</b>
	<b>Interactive computer trainings for improvement of binocular functions</b> (M.Gracheva, S.Rychkova, I.Senko, H.P.Tahchidi) <b>P2-7</b>
	<b>Computer-aided techniques in analysis and treatment of strabismic suppression: practical issues</b> (S.Rychkova, M.Gracheva, I.Senko) <b>P2-8</b>
	<b>Visual acuity and contrast sensitivity in different keratoconus stages</b> (S.Liduma, G.Krūmiņa) <b>P2-9</b>
	<b>Vertical zones of clear vision with progressive addition lenses</b> (M.König, W.Jaschinski) <b>P2-10</b>
	<b>Assesment of iridocorneal angle</b> (A.Keiša) <b>P2-11</b>
<b>Room 107</b>	
14:00-15:30	<b>Posters and Coffee break</b>
<b>Room 108</b>	
14:00-15:30	<b>Demonstration of Hoya EyeGenius</b>

<b>Auditorium Magnum</b>	
<b>Session 4: Clinical</b> (G.Krūmiņa, G.Ikaunieks)	
15:30-15:50	<b>Differences in the development of deprivational and disbinocular amblyopia</b> (S.Alekseenko, P.Shkorbatova)
15:50-16:10	<b>Current trends of myopia management strategies in clinical practice</b> (M.Zvirgzdiņa, J.B.Orr, N.S.Logan, J.S.Wolffsohn)
16:10-16:30	<b>Orthokeratology and short term changes in peripheral refraction</b> (A.Hartwig, H.Radhakrishnan)
16:30-16:50	<b>Corneal curvature changes using long term orthokeratology*</b> (L.Kozuliņa, G.Krūmiņa)
16:50-17:10	<b>Slope of the accommodative response measured with the retinal brightness method</b> (V.Karitāns, N.Fridrihsone, E.Kassaliete, A.Švede, M.Ozoliņš, G.Krūmiņa)
17:10-17:30	Discussion
<b>Auditorium Magnum</b>	
17:30-17:40	<b>Conference closing</b>
<b>Restaurant “Kliversala”, Mukusalas Str. 3</b>	
19:00-22:00	Closing dinner

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Minor changes to the programme can occur until the start of the Symposium. We will keep the programme on our website ([www.vispep.lu.lv](http://www.vispep.lu.lv)) up to date at all times. Please check back regularly our website ([www.vispep.lu.lv](http://www.vispep.lu.lv)) to download the most recent versions of the programme.

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