

# WLCP 2018

## Conference Program

	Monday 17-09-2018	Tuesday 18-09-2018	Wednesday 19-09-2018	Thursday 20-09-2018	Friday 21-09-2018					
07:00 - 08:00		Breakfast	Breakfast	Breakfast	Breakfast					
08:00 - 08:10		Breakfast								
08:10 - 08:20		Opening	P4 Kristiaan Neyts Session Chair Roman Dąbrowski	I3 Liang-Chy Chien	I5 Wiesław Królikowski					
08:20 - 08:30										
08:30 - 08:40										
08:40 - 08:50										
08:50 - 09:00										
09:00 - 09:10	P1 Jan Lagerwall Session Chair Tomasz Wołński	P2 Norbert Fruehauf	I2 Eva Otón Session Chair Kristiaan Neyts	OL10 Masanori Ozaki Session Chair Slobodan Žumer	OL17 Brigita Rožič Session Chair Tomasz Wołński					
09:10 - 09:20										
09:20 - 09:30										
09:30 - 09:40										
09:40 - 09:50										
09:50 - 10:00										
10:00 - 10:10										
10:10 - 10:20										
10:20 - 10:30										
10:30 - 10:40										
10:40 - 10:50										
10:50 - 11:00										
11:00 - 11:30						Coffee break	Coffee break	Coffee break	Coffee break	
11:30 - 11:40						OL1 Guilhem Poy Session Chair Janusz Parka	P3 Oleg Lavrentovich	OL5 Marwan Abuleil Session Chair Katarzyna Rutkowska	OL13 Miłosz Chychłowski Session Chair Mirosław Karpierz	
11:40 - 11:50										
11:50 - 12:00										
12:00 - 12:10										
12:10 - 12:20										
12:20 - 12:30										
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12:50 - 13:00										
13:00 - 13:10										
13:10 - 13:20										
13:20 - 13:30										
13:30 - 15:00	Lunch	Lunch	Lunch	Lunch						

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Time	17-09-2018	18-09-2018	19-09-2018	20-09-2018	21-09-2018		
15:00 - 15:10	Welcome Reception	Session Chair Leszek Jaroszewicz OL3 Piotr Lesiak	Session Chair Andrzej Miniewicz OL7 Agata Budaszewska	Session Chair Wiesław Królikowski OL15 Urszula Laudyn			
15:10 - 15:20							
15:20 - 15:30							
15:30 - 15:40							
15:40 - 15:50							
15:50 - 16:00		OL4 Oleksandr Buchnev	OL8 Brigita Rožič	OL16 Boris Umanskii			
16:00 - 16:10							
16:10 - 16:20		OS1 Manuel Cano-Garcia	OS8 Karolina Bednarska	OS14 Michał Kwaśny			
16:20 - 16:30							
16:30 - 16:40							
16:40 - 16:50		I1 José Manuel Otón	OL9 Inge Nys	I4 Mirosław Karpierz			
16:50 - 17:00							
17:00 - 17:10							
17:10 - 17:20							
17:20 - 17:50	Supper						
17:50 - 18:50		CLC Poster Session A	CLC Poster Session B	CLC Poster Session C 17:30 - 18:30			
18:40 - 18:50							
18:50 - 19:00							
19:00 - 20:00			Bonfire	Supper			
20:00 - 21:00	Tutorial 1 Gaetano Assanto		Tutorial 3 Andrzej Miniewicz	Banquet			
21:00 - 22:00	Tutorial 2 Victor Reshetnyak		Tutorial 4 Xabier Quintana				
22:00 - 23:00							

**Tutorial 1h**

Tutorial 1 Gaetano Assanto	Nematicons: self-confined light beams in nematic liquid crystals, from nonlinear optics to photonics
Tutorial 2 Victor Reshetnyak	Tuning surface plasmons with liquid crystal layer
Tutorial 3 Andrzej Miniewicz	Nonlinear optical phenomena in photochromic and photorefractive liquid crystals
Tutorial 4 Xabier Quintana	Liquid crystal alignment. A practical guide

**Plenary 1h**

P1 Jan Lagerwall	Phase separation in liquid crystals: from surprising physics to functional materials
P2 Norbert Fruehauf	Liquid Crystal Light Modulators for Non-Display Applications
P3 Oleg Lavrentovich	Electro-optics of oblique helicoidal cholesterics
P4 Kristiaan Neyts	Complex liquid crystal geometries created by periodic photo-alignment

**Invited 40 min**

I1 José Manuel Otón	Modulating transmission of waveguides with tunable cladding
I2 Eva Otón	Single-Crystal Blue Phase layers as 3D Photonic Crystals
I3 Liang-Chy Chien	Augmenting light-cholesteric interactions with polymer-stabilized conical helix
I4 Mirosław Karpierz	Nonlinear guided light beams in LC structures
I5 Wiesław Królikowski	Wave localisation and soliton propagation in liquid crystals and colloidal suspensions
I6 Slobodan Žumer	Topological structures of frustrated achiral and chiral nematics with potential for photonics

Oral 30 min	
OL1 Guilhem Poy	Simulation of polarized optical micrographs including light-deviation effects in long pitch cholesteric structures
OL2 Andrej Petelin	Diffractive transfer matrix method
OL3 Piotr Lesiak	Periodic structures preparation in nematic liquid crystal doped with gold nanoparticles
OL4 Oleksandr Buchnev	Metamaterial-Enhanced Thin Liquid-Crystal Cell as a Spatial Phase Modulator for THz Applications
OL5 Marwan Abuleil	Multi Spectral and ellipso-polarimetric cameras based on liquid crystal devices
OL6 Nina Kravets	Taming nematic umbilical defects towards self-engineered spin-orbit photonics
OL7 Agata Budaszewska	Tunable photonic structures infiltrated with liquid crystals doped with metallic nanoparticles
OL8 Brigita Rožič	Stabilization of topological-defect-structures by nanoparticles in liquid crystals
OL9 Inge Nys	Controlled formation of chiral liquid crystal superstructures by periodic modulation of the surface properties
OL10 Masanori Ozaki	Transparent and Functional Hologram based on Patterned Cholesteric Liquid Crystal
OL11 Sławomir Ertman	Sensors of the electric field intensity and direction based on the microstructured optical fibers selectively filled with liquid crystals
OL12 Daniel Budaszewski	Photo-aligned photonic ferroelectric liquid crystal fibers and their electro-optical properties
OL13 Miłosz Chychłowski	Photo-polymerization of optically-generated structures in Liquid Crystals
OL14 Oleksandr Buchnev	Re-configurable Photonic Metamaterials Elastically Coupled with Liquid Crystals at Nanoscale
OL15 Urszula Laudyn	Light guiding and routing in uniaxal micro-structures
OL16 Boris Umanskii	Waveguide Amplification of Dye Fluorescence in NLC Layer
OL17 Brigita Rožič	Oriented gold nanorods and gold nanorod chains within smectic liquid crystal topological defects
OL18 Juergen Schmidtke	Angular-dependent spontaneous emission in cholesteric liquid crystal films

## Oral 20 min

Oral 20 min	
OS1 Manuel Cano-Garcia	Implementing LC-driven Mach-Zehnders on PICs
OS2 Marzena Sala-Tefelska	Optical properties of Blue Phase Liquid Crystal in photonic structures
OS3 Kamil Orzechowski	The polarization-controlled properties of photonic structures based on blue phase liquid crystal
OS4 Andrey Iljin	Squeezing of laser pulses in nonlinear-optical LC cell
OS5 Bartłomiej Klus	NLC device protecting digital cameras against the light with high intensity
OS6 Mauricio Morel	Molecular Movements and color in liquid crystals a powerful technological tool
OS7 Filip Sala	Molecular reorientation under the influence of electric field and heat diffusion in nematic liquid crystals
OS8 Karolina Bednarska	Self-organizing, one-dimensional periodic structures in nematic liquid crystals doped with gold nanoparticles
OS9 Koki Imamura	Electro-optic properties of polymerized cholesteric liquid crystal microparticles in liquid crystal hosts
OS10 Abdellah Al-Sunaidi	Isotropic-nematic transition of rod-like particles in external fields
OS11 Fernando Gordo	Polymer waveguides for biological sensors
OS12 Katarzyna Rutkowska	Determination of the propagation losses in different liquid crystalline materials, phases and structures for integrated optics
OS13 Xabier Quintana	Characterizing polymer LC matrices with AFM
OS14 Michał Kwaśny	Electrical control of optical liquid crystal guided microstructures