

ILCC2022

28th International Liquid Crystal Conference

24th to 29th July 2022, NOVA School of Science and Technology, Lisbon, Portugal

		Friday, 29th July				
		Grand Auditorium				
		Chair: Alenka Mertelj				
08:30-09:20		PL-5 Sung Tae Shin				
09:20-09:45		Coffee Break				
		Grand Auditorium	Building IV Amph.I	Building IV Amph.II	Building IV Amph.III	Building IV Amph.IV
		Chair: Linda Hirst	Chair: Wei Lee	Chair: Jon Fossum	Chair: Emmanuelle Lacaze	Chair: Matthias Lehmann
09:45-10:00	ILK-16-GA: Agnes Buka	IL-10-AI: Tigran Galstiann	DO-38: G. Chu	CO-37: Y. Takanishi (online)	ILK-8-AIV: Mark MacLachlan	
	10:00-10:15		AO-19: A. Susser	CO-38: C. Brown (online)		
10:15-10:30	EO-29: O. Prishchepa (online)	FO-32: M. Funahashi (online)	AO-20: L. Amaral (online)	CO-39: E. Jull	DO-39: A. Raab	
10:30-10:45	EO-30: U. Tkalec (online)	FO-33: S. Aya (online)	AO-21: J. Cartwright	CO-40: N. Kravets	DO-40: N. Godman	
10:45-11:00	EO-31: C. Slaughter	FO-34: H. Shaban (online)	AO-22: A. Figueiredo Neto	CO-41: L. Martinez-Miranda	DO-41: J. Bruckner	
11:00-11:15	EO-32: M. Máthé	FO-35: O. Buchnev	AO-23: F. Serra	CO-42: J. Lee	DO-42: M. Beira	
11:15-11:30	EO-33: J. Romero-Enrique	FO-36: M.-J. Lee	AO-24: K. Vertchik	CO-43: G. Nava	DO-43: E. Zawvou	
11:30-11:45	IL-17-GA: Victor Reshetnyak	FO-37: A. Parry	ILK-9-AII: Silvia Vignolini	IL-13-AIII: Teresa Lopéz-Léon	IL-9-AIV: Sabine Laschat	
11:45-12:00		FO-38: A. Shah				
		Grand Auditorium				
12:10-12:30	Closing ceremony (and musical group performance TunaMaria)					
12:30-14:00	Lunch					

Poster Sessions online (Padlet)

Exhibition Liquid Crystal Pictures (Library)

Registration (entrance Building IV)



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Room: **Grand Auditorium**

08:30-09:20

Chair: Alenka Mertelj

PL-5 - "Envisioning Future Video Displays" S.T. Shin.

Coffee Break

09:45-12:00

Chair: Linda Hirst

ILK-16-GA - "Topology in lens shape geometry" A.A. Buka; M.T. Mathe; P. Salamon; Z. Karaszi; A. Jakli.

EO-29 - "Evolution of periodic cholesteric structure with planar-conical boundary conditions in electric field" O. Prishchepa; M. Krakhalev; V. Rudyak; V. Sutormin; V. Zyryanov.

EO-30 - "Topological states and transitions in flowing nematics" U. Tkalec; T. Emeršič; R. Zhang; S. Čopar; Ž. Kos; J.J. de Pablo.

EO-31 - "Rheological Behavior of Shape-Changing LC Drop Suspensions" C.G. Slaughter; Z. Liu; W-S. Wei; C. Osuji; A.G. Yodh.

EO-32 - "Electric field induced surface instability in a ferroelectric nematic material" M.T. Máthé; A. Buka; A. Jákli; P. Salamon.

EO-33 - "Orientational transition in nanobridges of nematic liquid crystals in slit pores." J.M. Romero-Enrique; L.F. Rull.

IL-17-GA - "Modelling Surface Plasmon Spectra of an ITO Nano-Ribbon Grating Adjacent to a Liquid Crystal Layer" V.Y. Reshetnyak; V.I. Zadorozhnii; I.P. Pinkevych; T.J. Bunning; D.R. Evans.

12:10-12:30

Closing ceremony

12:30-14:00

Lunch



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Room: **Building IV – Amphitheater I**

09:45-12:00

Chair: **Wei Lee**

IL-10-AI - “Recent progress in large aperture liquid crystal lenses” T. Galstian; A. Pusenkova; O. Sova.

FO-32 - “High Open Circuit Voltage in Double Chiral Ferroelectric Liquid Crystals Comprising an Extended π –Conjugated Unit” M. Funahashi.

FO-33 - “Non-classic quasi-phase-matching of nonlinear three-wave-mixing realized by helielectric nematics” S. Aya; M. Huang; X. Zhao; H. Xu; R. Xia; J. Kougo; H. Long.

FO-34 - “Label-Free Bioassay Based on a Nematic Aqueous Solution of a Food Coloring Dye” H. Shaban; M.-J. Lee; W. Lee.

FO-35 - “Controlling Tamm Plasmons with Liquid Crystals” O. Buchnev; A. Belosludtsev; V. Reshetnyak; D.R. Evans; A.V. Fedotov.

FO-36 - “Liquid Crystal-Based Single-Substrate Biosensors as Next-Generation Point-of-Care Testing Devices” M.-J. Lee; W. Lee.

FO-37 - “The Design of Novel Liquid Crystal Droplets as Biosensors” A.A. Parry; H.F. Gleeson; S.D. Evans; D.A. Paterson; P. Bao; J.C. Jones; S.A. Peyman; J. Sandoe; R. Bushby.

FO-38 - “Mechanically stabilized discotic liquid crystals via UV-crosslinked reactive nematogen manifest effective drift mobility of charge carriers accompanied by enhanced dielectric properties” A. Shah.



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09:45-12:00

Chair: Jon Fossum

DO-38 - “Liquid-Liquid Phase Separation in All-Aqueous Liquid Crystal Colloids: Binary Polymers meets Self-assembled Nanocellulose” G. Chu; O.J. Rojas.

AO-19 - “Co-Revolving Topological Defects in a Nematic Liquid Crystal” A.L. Susser; S. Kralj; C. Rosenblatt.

AO-20 - “Studies of some bio-inspired Liquid Crystals” L. Amaral.

AO-21 - “Liquid Crystals in Biomineralization” J.H.E. Cartwright.

AO-22 - “Structure and local order of lyotropic cholesteric calamitic phases: The effect of the chiral molecule” A.M. Figueiredo Neto; O.R. Santos; D. Reis; A.G. Oliveira-Filho; C.L.P. Oliveira.

AO-23 - “Topological Defects in Cell Monolayers” F. Serra; M.S. Kim; M. Pittman; Y. Chen; K. Endresen.

AO-24 - “Order and disorder in DNA toroids” K. Vertchik; C. Messaoudi; S. Trépout; A. Leforestier.

ILK-9-AII - “Biomimetic colour engineering from nature to applications” S. Vignolini.



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09:45-12:00

Chair: Emmanuelle Lacaze

CO-37 - “New structure formation induced by nano-scale phase separation composed of a bent-core liquid crystal and rod-like cholesteric liquid crystal mixtures” Y. Takanishi; F. Araoka; H. Iwayama.

CO-38 - “Electrically controlled topological micro cargo transportation” C.V. Brown; A.S. Bhadwal; N.J. Mottram; A. Saxena; I.C. Sage.

CO-39 - “Geometrical control of colloidal liquid crystal alignment and dynamics” E.I.L. Jull; G. Campos-Villalobos; M. Dijkstra; L. Tran.

CO-40 - “Convertible generation of localized umbilics” N. Kravets; E. Brasselet.

CO-41 - “The Effect of the Buried Surface on the Structure and the Transport of Charges in Liquid Crystal Organic Photovoltaics” L.J. Martinez-Miranda; M.F. Borunda.

CO-42 - “Viscoelastic effects of a local flow in nematic liquid crystals by a single rotating particle” J.Y. Lee; J.H. Lee; B. I. Lev; J.H. Kim.

CO-43 - “Ferroelectric nematics in microchannels: switching and propagation of order” G. Nava.

IL-13-AIII - “The intricate dance of topological defects in confined active nematics” T. Lopez-Leon.



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09:45-12:00

Chair: Matthias Lehmann

ILK-8-AIV - “Responsive Photonic Materials from Colloidal Liquid Crystals” M.J. MacLachlan.

DO-39 - “Fluorenone imidazolium salts as novel de Vries materials” A.R. Raab; K. Bader; C. Müller; Y. Molard; A. Baro; P. Ehni; J. Knelles; S. Laschat.

DO-40 - “Hybrid inorganic chalcogenide/organic liquid crystalline composites” N.P. Godman; C.P. Ambulo; M.K. Lauer; K.J. Carothers; M.E. McConney; S.T. Iacono.

DO-41 - “Lyotropic Liquid Crystal Phase Behavior of High Molar Mass Reverse Poloxamers and their Use as Structure-Directing Agents” J. R. Bruckner; C. Vogler; S. Naumann.

DO-42 - “The subtle importance of collective motions on isotropic magnetic and non-magnetic ionic liquid systems” M.J. Beira; R. Cordeiro; C. Cruz; J.L. Figueirinhas; P.J. Sebastião.

DO-43 - “Photoalignment and giant SHG response in a ferroelectric nematic phase and its mixtures with the NTB compounds” E.E. Zavvou; P.K. Karahaliou; A.G. Vanakaras; O. Haba; M. Bremer; A. Eremin.

IL-9-AIV - “Solid State Structures as Inspiration for the Design of Luminescent Liquid Crystals: Turning a Poor Catalyst into Highly Emissive Soft Matter” S. Laschat.