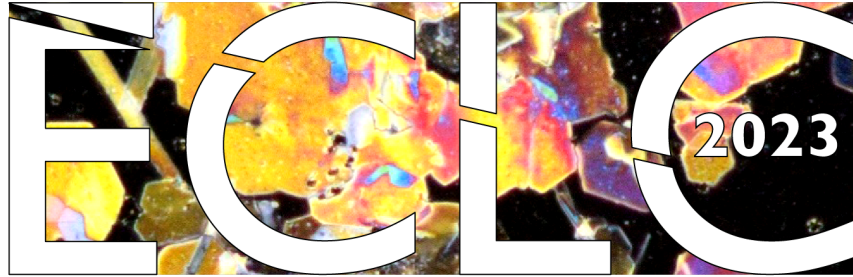


16th European Conference on Liquid Crystals



DETAILED PROGRAM

Università della Calabria
Rende (CS) - Italy, July 10 - 14, 2023

Timetables

Hall A

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY		FRIDAY	
8:30-9:30		REGISTRATION and OPENING						
9:30-10:10		13- R. BARTOLINO	11- N. TABIRYAN	6- F. SIMONI	7- E. VIRGA	9:30-10:05	9- E.I. SZERB	
10:10-10:45		4- R. MANDLE	7- A. SCHENNING	6- G. ASSANTO	6- M. GEDAY	10:05-10:35	2- S. FERNANDES	
10:45-11:15		4- J. MACLENNAN	4- A. EREMIN	4- V. NOVOTNA	6- R. KOWERDZIEJ	10:35-10:55	2- O. SKELTON	
11:15-11:40		coffee break	coffee break	coffee break	coffee break	10:55-11:15	10- G. SAIELLI	
11:50-12:10		4- A. EMELYANENKO	4- P. SALAMON	9- N. GODBERT	6- J. PARKA	11:15-11:45	coffee break	
12:10-12:30		4- A. ERKOREKA	4- A. CHRZANOWSKA	9- M. LEHMANN	6- K. NEYTS		CLOSING REMARKS & Awards	
12:30-12:50		4- Y.T. HSIAO	4- D.P. SINGH	9- L. REBER	6- M. MUSZYŃSKI	11:45-13:00		
12:50-13:10		4- E. CRUICKSHANK	4- M. WILSON	9- R. ROSSI	6- A. MAZZULLA			
13:10-13:30		4- H. NISHIKAWA	4- N. YADAV	9- Y. SHIMIZU	6- W. ZHENG			
13:30-15:30		Lunch break	Lunch break	Lunch break	Lunch break	13:00-15:00	Lunch break	
15:30-16:00		4- T. BELLINI	4- L. LUCCHETTI	4- A. MERTEJ	6- S. NOCENTINI			
16:00-16:20		4- P. MEDLE RUPNIK	7- S. DONATO	4- N. SEBASTIAN	6- B. AUDIA			
16:20-16:40		1- H. NÁDASI	7- D. MARTELLA	6- G. STRANGI	1- M. HERBST			
16:40-17:00		Coffee break	7- T. RITACCO	coffee break	coffee break			
17:00-17:20		& Poster Session	Excursion to Cosenza & Villa Rendano Light Dinner	Barbieri Restaurant Altomonte Gala Dinner	1- L. ESSAOUI			
17:20-17:40								
17:40-18:30								
19:30-22:30	Registration and Light Welcome Dinner							

Hall B

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY		FRIDAY	
8:30-9:30		REGISTRATION and OPENING						
9:30-10:10		Plenary in Hall A	Plenary in Hall A	Plenary in Hall A	Plenary in Hall A	9:30-10:05	5- M. RAVNIK	
10:10-10:45		11- E. BRASSELET	12- E. LACAZE	5- T. LOPEZ-LEON	6- J. SZCZYTKO	10:05-10:35	1- T. FRACCIA	
10:45-11:15		11- L. DE SIO	10- L.R. EVANGELISTA	5- E. GRELET	4- A. JAKLI	10:35-10:55	1- L. HONAKER	
11:15-11:40		coffee break	coffee break	coffee break	coffee break	10:55-11:15	3- T. ORLOVA	
11:40-12:10		12- S. ČOPAR	10- V. RESHETNYAK	3- E. GORECKA	3- E. OTÓN	11:15-11:45	coffee break	
12:10-12:30		12- J. NIYONZIMA	10- L. DAL COMPARE	5- M.T. MÁTHÉ	3- P. PIERANSKI		CLOSING REMARKS & Awards	
12:30-12:50		12- D. BELLER	10- R. HENDRIKSE	5- S.R. SEYEDNEJAD	3- S. RANI	11:45-13:00		
12:50-13:10		1- T. MADELEINE	10- G. NEGRO	5- Z. VALEI	3- R. WALKER			
13:10-13:30		1- C. TOSARELLI	10- M. OSIPOV	5- L. HEAD	3- R. WITTMANN			
13:30-15:30		Lunch break	Lunch break	Lunch break	Lunch break	13:00-15:00	Lunch break	
15:30-16:00		1- A. CONCELLON	1- O. LAVRETOVICH	3- I. SMALYUKH	6- D. LUCCHETTA			
16:00-16:20		1- B. ZAPPONE	10- A. FERRARINI	3- M. MARINČIČ	13- A. GOLEMME			
16:20-16:40		1- S. LIU	10- G. ZHAO	3- S. PAPANINI	13- P. DE LA ROSA			
16:40-17:00		Coffee break	2- F. ZACCAGNINI	Coffee break	Coffee break			
17:00-17:20		& Poster Session	Excursion to Cosenza & Villa Rendano Light Dinner	Barbieri Restaurant Altomonte Gala Dinner	13- M. LAVRIČ			
17:20-17:40								
17:40-18:30								13- S.S. VARYTIMIADOU
19:30-22:30	Registration and Light Welcome Dinner							

Topics

Timing

Plenary 35'+5'

Keynote 30'+5'

Invited 25'+5'

Oral 15'+5'

1- Confined and Self-assembled systems; 2- Sustainable and Biological materials; 3- Complex and Chiral LC Phases; 4- Ferroelectric Nematics; 5- Active Matter; 6- LCs in Photonics; 7- Responsive and Reactive LCs; 9- Design and Synthesis of LC Materials; 10- Theory and Simulations of LC Systems; 11- Innovative Technologies; 12- Topology and Defects; 13- Other topics related to LCs

HALL A

MONDAY, July 10th 2023

MONDAY, July 10th 2023		
Registration and Opening Ceremony		
<i>Other topics related to LCs</i>		<i>Chair: R. Barberi</i>
8:30 – 9:30	Registration and Opening Ceremony	
9:30 – 10:10	PL: R. Bartolino	An historical and philosophical presentation of the birth and growth of the Liquid Crystals - Soft Matter community at Rende, Calabria, Italy: the first ten years
<i>Ferroelectric Nematics</i>		
10:10 – 10:45	KL: R. Mandle	Automated flow synthesis of algorithmically designed ferroelectric nematogens
10:45 – 11:15	IL: J. Maclennan	From ferroelectric nematics to smectics
11:15 – 11:40	<i>Coffee Break</i>	
<i>Ferroelectric Nematics</i>		<i>Chair: G. Assanto</i>
11:50 – 12:10	A. Emelyanenko	Ferroelectric and antiferroelectric splay nematic phases in a liquid crystal composed of polar molecules
12:10 – 12:30	A. Erkoreka	Effect of the sample thickness on the measured dielectric spectra of a ferroelectric nematic liquid crystal
12:30 – 12:50	Y. T. Hsiao	Ferroelectric nematic liquid crystal for fast switching optical components
12:50 – 13:10	E. Cruickshank	The influence of terminal chain length on the formation of the ferroelectric nematic phase
13:10 – 13:30	H. Nishikawa	Nano-clustering over phase transitions in diastereomerically-stabilized ferroelectric nematics
13:30 – 15:30	<i>Lunch Break</i>	
<i>Ferroelectric Nematics</i>		<i>Chair: G. Palermo</i>
15:30 – 16:00	IL: T. Bellini	Electric field guiding and polarization switching in microchannel-confined ferroelectric nematics
16:00 – 16:20	P. Medle Rupnik	Flow-mediated mechano-electric phenomena in ferroelectric nematic liquid crystals
<i>Confined and Self-assembled systems</i>		
16:20 – 16:40	H. Nádasi	Liquid crystal magnets: fine-tuning nanoscale properties and dynamics
16:40 – 18:30	<i>Coffee Break & POSTER SESSION</i>	

HALL B

MONDAY, July 10th 2023

MONDAY, July 10th 2023		
Registration and Opening Ceremony (in HALL A)		
8:30 – 9:30	Registration and Opening Ceremony (in HALL A)	
<i>Innovative Technologies</i>		<i>Chair: M. Giocondo</i>
10:10 – 10:45	KL: E. Brasselet	Light-directed structuring of liquid crystals
10:45 – 11:15	IL: L. De Sio	Photo-thermal controlled optical absorber based on liquid crystal metasurfaces
11:15 – 11:40	<i>Coffee Break</i>	
<i>Topology and Defects</i>		<i>Chair: T. Fraccia</i>
11:40 – 12:10	IL: S. Čopar	Shaping nematic droplets with surface tension
12:10 – 12:30	J. Niyonzima	Synchrotron GISAXS study of the effect of thickness on smectic A liquid crystal topological defects
12:30 – 12:50	D. Beller	Defect evolution in the smectic A-to-nematic phase transition in geometrically patterned confinement
<i>Confined and Self-assembled systems</i>		
12:50 – 13:10	T. Madeleine	Control of long-range gold nanoparticles networks in liquid crystals and their topological characterization
13:10 – 13:30	C. Tosarelli	Order and disorder induced by smectic liquid crystal topological defects on gold nanoparticles networks
13:20 – 15:30	<i>Lunch Break</i>	
<i>Confined and Self-assembled systems</i>		<i>Chair: A. Mazzulla</i>
15:30 – 16:00	IL: A. Concellon	Dynamic Complex Liquid Crystal Emulsions
16:00 - 16:20	B. Zappone	Strength from defects: Topological barriers to defect nucleation generates large mechanical forces in a cholesteric
16:20 - 16:40	S. Liu	Reconfiguration of blue phase liquid crystal by photoalignment
16:40 – 18:30	<i>Coffee Break & POSTER SESSION</i>	

HALL A

TUESDAY, July 11th 2023

TUESDAY, July 11th 2023		
<i>Innovative Technologies</i>		<i>Chair: C. P. Umeton</i>
9:30 – 10:10	PL: N. Tabiryan	Optics Unlimited
<i>Responsive and Reactive LCs</i>		
10:10 – 10:45	KL: A. Schenning	Stimuli-responsive Hydrogen-Bonded Liquid Crystalline Elastomers
<i>Ferroelectric Nematics</i>		
10:45 – 11:15	IL: A. Eremin	Polarity effects in ferroelectric nematics and their hybrids in bulk and confinement
11:15 – 11:40	<i>Coffee Break</i>	
<i>Ferroelectric Nematics</i>		<i>Chair: L. De Sio</i>
11:50 – 12:10	P. Salamon	Ramification and labyrinth instabilities in a ferroelectric nematic fluid exposed to electric fields
12:10 – 12:30	A. Chrzanowska	Onsager theory of perfectly aligned rod like particles with longitudinal dipoles - bifurcation analysis approach
12:30 – 12:50	D.P. Singh	Thermal conductivity of RM 734 ferroelectric nematic material at the ferroelectric-ferroelastic phase transition
12:50 – 13:10	M. Wilson	The structure of the ferroelectric nematic phase: insights from molecular dynamics simulations
13:10 – 13:30	N. Yadav	Comparison between three ferronematic compounds with different phase sequence
13:30 – 15:30	<i>Lunch Break</i>	
<i>Ferroelectric Nematics</i>		<i>Chair: T. Bellini</i>
15:30 – 16:00	IL: L. Lucchetti	Ferroelectric sessile droplets on ferroelectric solids: electromechanical instability and other phenomena
<i>Responsive and Reactive LCs</i>		
16:00 - 16:20	S. Donato	Multi-responsive microstructures based on Liquid Crystalline Networks
16:20 - 16:40	D. Martella	Cell instructive polymers based on liquid crystals
16:40 -17:00	T. Ritacco	Tuning LCs photoresists during microfabrication
17:00 – 22:30	<i>Excursion to Cosenza & Villa Rendano Light Dinner</i>	

HALL B

TUESDAY, July 11th 2023

TUESDAY, July 11th 2023		
<i>Topology and Defects</i>		<i>Chair: B. Zappone</i>
10:10 – 10:45	IL: E. Lacaze	Smectic liquid crystal topological defects, instabilities and their interactions with nanoparticles
<i>Theory and Simulations of LC Systems</i>		
10:45 – 11:15	IL: L.R. Evangelista	Anomalous diffusion approach to electrical impedance response of liquid crystals
11:15 – 11:40	<i>Coffee Break</i>	
<i>Theory and Simulations of LC System.</i>		<i>Chair: L. Evangelista</i>
11:40 – 12:10	IL: V. Reshetnyak	Excitation and tuning of optical Tamm states in a metal – polymer – liquid crystal stack
12:10 – 12:30	L. Dal Compare	Stabilization of dense liquid crystalline phases by electrostatic interactions: a molecular dynamics study
12:30 – 12:50	R. Hendrikse	Using many-body dissipative particle dynamics to predict the properties of surfactant systems
12:50 – 13:10	G. Negro	Cholesteric shells: two-dimensional blue fog and finite quasicrystals
13:10 – 13:30	M. Osipov	Electrostatic effects and the origin of ferroelectric ordering in polar nematics
13:30 – 15:30	<i>Lunch Break</i>	
<i>Confined and Self-assembled systems</i>		<i>Chair: M.P. De Santo</i>
15:30 – 16:00	IL: O. Lavrentovich	Shape and Dynamics of Nematic Droplets
<i>Theory and Simulations of LC Systems</i>		
16:00 - 16:20	A. Ferrarini	The elasticity of lyotropic liquid crystal polymers and colloids
16:20 - 16:40	G. Zhao	Order parameter modelling using molecular simulation techniques
<i>Sustainable and Biological materials</i>		
16:40 -17:00	F. Zaccagnini	Gold nanorods-based biosensor with photo-responsive liquid crystals enables the detection of harmful pathogens in potable water
17:00 – 22:30	<i>Excursion to Cosenza & Villa Rendano Light Dinner</i>	

HALL A

WEDNESDAY, July 12 th 2023		
<i>LCs in Photonics</i>		<i>Chair: G. Strangi</i>
9:30 – 10:10	PL: F. Simoni	Advancements in Optics and Photonics of Liquid Crystals
10:10 – 10:45	KL: G. Assanto	Nematicons, from optics to photonics
<i>Ferroelectric Nematics</i>		
10:45 – 11:15	IL: V. Novotna	Ferroelectric nematic phase formed by dimethylamino-terminated molecules
11:15 – 11:40	<i>Coffee Break</i>	
<i>Design and Synthesis of LC Materials</i>		<i>Chair: A. Crispini</i>
11:50 – 12:10	N. Godbert	Iridium (III) water-soluble cationic complexes between gels and lyotropic liquid crystals: A new class of chromonic liquid crystals?
12:10 – 12:30	M. Lehmann	Record charge mobility in the nematic phase of a biaxial nematogen
12:30 – 12:50	L. Reber	Supramolecular click mechanism and fullerene-substituted porphyrin star mesogens – a success story?
12:50 – 13:10	R. Rossi	3D printing of Liquid Crystal Elastomers for the development of artificial muscles
13:10 – 13:30	Y. Shimizu	Dynamic change of molecular conformation generating a variation of liquid crystalline phases for triphenylene mesogens with peripheral alkoxyazobenzenes
13:30 – 15:30	<i>Lunch Break</i>	
<i>Ferroelectric Nematics</i>		<i>Chair: L. Lucchetti</i>
15:30 – 16:00	IL: A. Mertelj	Photopatterning for the design of domains in ferroelectric nematic liquids
16:00 - 16:20	N. Sebastian	Exploiting flexoelectric coupling in RM734 and DIO: similarities and differences
<i>LCs in Photonics</i>		
16:20 - 16:40	G. Strangi	All-optical tunability of metalenses permeated with liquid crystals
16:40 – 17:00	<i>Coffee Break</i>	
17:00 – 22:30	<i>Barbieri Restaurant Altomonte Gala Dinner</i>	

HALL B

WEDNESDAY, July 12 th 2023		
<i>Active Matter</i>		<i>Chair: C.M. Tone</i>
10:10 – 10:45	KL: T. Lopez-Leon	Towards autonomous micromachines powered by active nematics
10:45 – 11:15	IL: E. Grelet	Bacterial micro-swimmers in colloidal liquid crystals
11:15 – 11:40	<i>Coffee Break</i>	
<i>Complex and Chiral LC Phases</i>		<i>Chair: E. Otón</i>
11:40 – 12:10	IL: E. Gorecka	Complex twist bend smectic phases
<i>Active Matter</i>		
12:10 – 12:30	M.T. Máthé	Active matter state of a ferroelectric nematic liquid crystal
12:30 – 12:50	S.R. Seyednejad	Nematic flow induced by active surface anchoring
12:50 – 13:10	Z. Valei	Active nematic-induced dynamics of passive polymers
13:10 – 13:30	L. Head	Interplay of active nematic defects and flow structures
13:30 – 15:30	<i>Lunch Break</i>	
<i>Complex and Chiral LC Phases</i>		<i>Chair: P.Pieranski</i>
15:30 – 16:00	IL: I. Smalyukh	From chiral nematics to knotted chiral meta matter
16:00 - 16:20	M. Marinčič	Numerical modelling of skyrmions in blue phase iii
16:20 - 16:40	S. Papparini	Contrasting quadratic and quartic elastic theories for Chromonics
16:40 – 17:00	<i>Coffee Break</i>	
17:00 – 22:30	<i>Barbieri Restaurant Altomonte Gala Dinner</i>	

HALL A

THURSDAY, July 13 th 2023		
<i>Responsive and Reactive LCs</i> <i>Chair: M. Giocondo</i>		
9:30 – 10:10	PL: E. Virga	Photoresponsive Nematic Elastomers
<i>LCs in Photonics</i>		
10:10 – 10:45	KL: M. Geday	Light with a twist
10:45 – 11:15	IL: R. Kowerdziej	Electrically-Controlled Fano-Resonant Dual-Band Plasmon Induced Transparency Liquid Crystal Terahertz Meta-Switch
11:15 – 11:40	<i>Coffee Break</i>	
<i>LCs in Photonics</i> <i>Chair: M. Geday</i>		
11:50 – 12:10	J. Parka	Hyperbolic metamaterials for enhancement spontaneous emission engineering
12:10 – 12:30	K. Neyts	Periodic and multi-step photoalignment to obtain 3d liquid crystal structures
12:30 – 12:50	M. Muszyński	Liquid crystal optical microcavity with built-in uniform lying helix as a platform for tunable one-dimensional photonic potential with spin-orbit interaction
12:50 – 13:10	A. Mazzulla	Photonics and optomechanics of core-shell mesogenic-metallic particles
13:10 – 13:30	W. Zheng	Optically generated microstructures in diacrylate polymer networks using a two-photon initiating system
13:30 – 15:30	<i>Lunch Break</i>	
<i>LCs in Photonics</i> <i>Chair: P. Pagliusi</i>		
15:30 – 16:00	IL: S. Nocentini	Polymer stabilized liquid crystals for linear and nonlinear photonics
16:00 - 16:20	B. Audia	Photoinduced birefringence driven by polarization patterning in liquid crystalline triblock copolymers
<i>Confined and Self-assembled systems</i>		
16:20 – 16:40	M. Herbst	Micellar lyotropic liquid crystalline physical gels – a new kind of anisotropic hydrogels
16:40 – 17:00	<i>Coffee Break</i>	
17:00 – 17:20	L. Essaoui	Dynamics of 2D-ribbons in liquid crystal topological defects

HALL B

THURSDAY, July 13th 2023

THURSDAY, July 13th 2023		
<i>LCs in Photonics</i>		<i>Chair: A. De Luca</i>
10:10 – 10:45	IL: J. Szczytko	Topological photonics with liquid crystal microcavities: control over the spin-orbit coupling of light
<i>Ferroelectric Nematics</i>		
10:45 – 11:15	IL: A. Jakli	Electromechanical effects in ferroelectric nematic liquid crystals
11:15 – 11:40	<i>Coffee Break</i>	
<i>Complex and Chiral LC Phases</i>		<i>Chair: R. Caputo</i>
11:50 – 12:10	IL: E. Otón	Peculiar chiral liquid crystal structures in photonic applications: from photonic crystals to microlasers
12:10 – 12:30	P. Pieranski	Folds and tangles of dislocation loops in cholesterics
12:30 – 12:50	S. Rani	Observation of helical self-assembly in cyclic triphosphazene-based columnar liquid crystals bearing chiral mesogenic units
12:50 – 13:10	R. Walker	New investigations into the twist-bend smectic phases (SmCTB)
13:10 – 13:30	R. Wittmann	Particle-resolved topology of colloidal smectics
13:30 – 15:30	<i>Lunch Break</i>	
<i>LCs in Photonics</i>		<i>Chair: N. Godbert</i>
15:30 – 16:00	IL: D. E. Lucchetta	Distributed feedback lasing from soft matter: exploring polymer dispersed liquid crystals, chiral liquid crystal microfluidic droplets, and photomobile polymers
<i>Other topics related to LCs</i>		
16:00 - 16:20	A. Golemme	On the origin of high charge mobility in discotic nematic mesophases formed by porphyrin-core dendrimers: an nmr study
16:20 - 16:40	P. de la Rosa	Advancements on liquid crystal-based reflectarray antennas in mm-wave
16:40 – 17:00	<i>Coffee Break</i>	
17:00 – 17:20	M. Lavrič	The elastocaloric effect in main-chain liquid crystal elastomers of different crosslinking compositions
17:20 – 17:40	A. Pedrini	Quasi-Uniform Nematic Fields
17:40 – 18:00	S.S. Varytimiadou	Lyotropic nematic liquid crystals: interplay between micellar shape and elasticity

HALL A

FRIDAY, July 14th 2023

FRIDAY, July 14 th 2023		
<i>Design and Synthesis of LC Materials</i>		<i>Chair: M. La Deda</i>
09:30 – 10:05	KL: E. J. Szerb	Metallomesogens from design to functional properties
<i>Sustainable and Biological materials</i>		
10:05 – 10:35	IL: S. Fernandes	Cellulose-based nanocomposites for anticounterfeiting applications
10:35 – 10:55	O. Skelton	Sustainable Formulations: Cellulose based Colloid-nematic Gels
<i>Theory and Simulations of LC Systems</i>		
10:55 – 11:15	G. Saielli	phase behaviour of charged Gay-Berne/Lennard-Jones mixtures
11:15 – 11:45	<i>Coffee Break</i>	
11:45 – 13:00	Closing remarks & Awards	
13:00 – 15:00	<i>Lunch Break</i>	

HALL B

FRIDAY, July 14th 2023

FRIDAY, July 14 th 2023		
<i>Active Matter</i> <i>Chair: F. Ciuchi</i>		
9:30 – 10:05	KL: M. Ravnik	Active and driven nematic topological defects
<i>Confined and Self-assembled systems</i>		
10:05 – 11:35	IL: T. Fraccia	Multiphase DNA based liquid - liquid crystalline phase separated systems
10:35 – 10:55	L. Honaker	Developing biological sensors with oleosin-stabilized nematic liquid crystal droplets
<i>Complex and Chiral LC Phases</i>		
10:55 – 11:15	T. Orlova	Reaction-diffusion origin of spatio-temporal dynamics of localized elastic excitations in photoactive chiral nematics
11:15 – 11:40	<i>Coffee Break</i>	
11:45 – 13:00	Closing remarks & Awards	
13:00 – 15:00	<i>Lunch Break</i>	