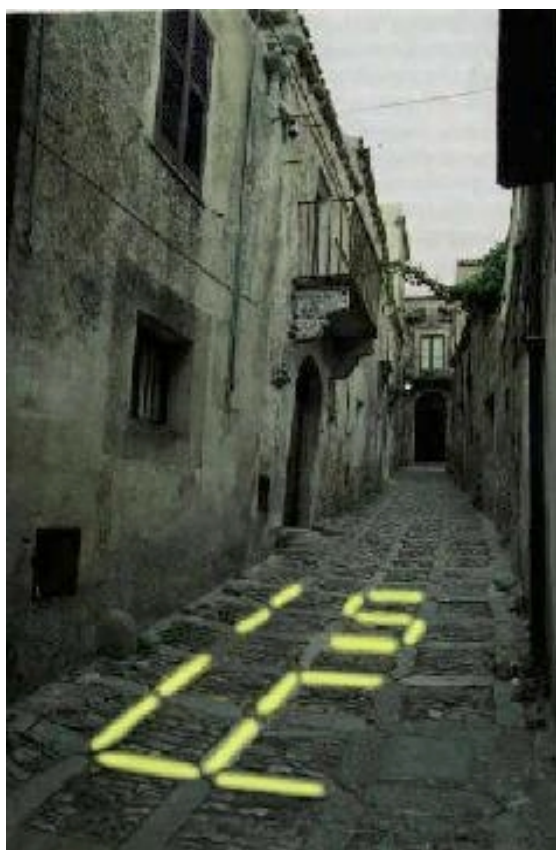


International School of Liquid Crystals
15th Workshop

Liquid Crystal Phases and Nano-Structures

*A Workshop to celebrate ten years of the
International Liquid Crystal School
and Claudio Zannoni 60th birthday*

*E. Majorana Centre for Scientific Culture, Erice
27 October – 1 November 2008*



Directors of the Workshop:
P. Pasini and S. Žumer

Director of the School:
C.Zannoni

Sponsors: Italian Liquid Crystal Society, INSTM-CRIMSON, E4 Computer Engineering

International School of Liquid Crystals

15th Course

Liquid Crystal Phases and Nano-Structures

*A Workshop to celebrate ten years of the
International Liquid Crystal School
and Claudio Zannoni 60th birthday*

Erice, 27 October – 1 November 2008

Schedule

27 October

afternoon: Arrival

21.15: Welcome Reception at the Marsala Lecture Hall (S. Rocco)

28 October

9.00 – 9.10

Welcome

9.10 – 9.50

G.R. Luckhurst

Thermotropic Biaxial Nematics: An Enduring Challenge?

9.50 – 10.30

S. Zumer

Superstructures in nematic colloids

10.30 – 11.00

C.A. deLange

Evolutionary strategies for solving extremely complicated NMR spectra of solutes in nematic solvents

11.00 – 11.30

A.F. Martins

Recent advances in the study of the dynamics of confined nematic liquid crystals with defects and boundary inhomogeneities

11.30 – 11.50

Coffee Break and Posters

11.50 – 12.30

M. Copic

Nematic fluctuations and semi-soft elasticity in liquid crystal elastomers

12.30 – 13.00

A. Ferrarini

An atomistic model for the elastic constants of nematics

lunch break

15.30 – 16.10

M. Wilson

Simulation studies of structure and organisation in chromonic phases and macromolecular liquid crystals.

16.10 – 16.40

M. Bates

Computer simulation of columnar phases in T and X shaped bolaamphiphiles

16.40 – 17.10

D. Cleaver

Computer simulation of ordered fluids and soft solids

17.10 – 17.40

Coffee break and posters

17.40 – 18.10

R. Berardi

Computer simulations of biaxial nematics

18.10 – 18.50

O.D. Lavrentovich

Dynamics of liquid crystal colloids studied by 3D microscopy

29 October

9.00 – 9.40	D. Photinos	Poly-domain to mono-domain phase transitions and field-induced macroscopic biaxial order in nematics
9.40 – 10.20	E.T. Samulski	The biaxial nematic phase in nonlinear oxadiazole mesogens
10.20 – 10.50	D. Bruce	From Simulation to Synthesis in the Search for the Biaxial Nematic Phase
10.50 – 11.20	G. Mehl	3-D ordering of mesogen covered gold nanoparticles.
11.20 – 11.40		Coffee Break and Posters
11.40 – 12.20	H. Yokoyama	Nanostructured surfaces for tailored anchoring of liquid crystals
12.20 – 12.50	M. Marinelli	Disorder effects at the HexB-SmA transition in 65OBC Liquid Crystal
lunch break		
15.30 – 16.10	C. Tschierske	Complexity in liquid crystals
16.10 – 16.40	D. Guillon	Nanostructured dendritic architectures
16.40 – 17.10	A. Sugimura	Deuterium NMR study of the director dynamics for a low molar mass nematic
17.10 – 17.40		Coffee break and posters
17.40 – 18.20	H. Takezoe	Vibrational Circular Dichroism in Spontaneously Chiral Segregated Domains of Ester Molecules
18.20 – 18.50	E. Burnell	What can NMR divulge about the ordering potential in nematic and smectic A liquid crystals?
18.50 – 19.10	E4 com	Technical presentation

30 October

9.00 – 9.40	I.C. Khoo	Nanostructured Liquid Crystalline Optical Metamaterials
9.40 – 10.10	G. Abbate	Complex photonic structures in soft materials.
10.10 – 10.40	F. Nicoletta	Electro-optical properties of liquid crystal dispersions
10.40 – 11.10	C. Umeton	POLICRYPS Structures and Applications
11.10 – 11.40		Coffee Break and Posters
11.40 – 12.20	T. Bellini	Liquid crystallization and phase separation in concentrated solution of ultrashort DNA and RNA oligonucleotides
12.20 – 12.50	G. Assanto	Robust spatial optical solitons in nematic liquid crystals: light trapping, routing and steering
lunch break		
14.30 – 19.30		Excursion

31 October

9.00 – 9.40	G. Vroege	Goethite nanorods and their modifications: extraordinary mineral liquid crystals
9.40 – 10.10	G. Celebre	About the nature and the role of long-range orientational interactions in nematic mesophases
10.10 – 10.40	L. Muccioli	Physical properties of n-cyanobiphenyls from Molecular Dynamics simulations
10.40 – 11.10	L.A. Madsen	Understanding and Controlling Anisotropy in Ionic Polymer Membranes and Micellar Solutions
11.10 – 11.40		Coffee Break and Posters
11.40 – 12.20	M. Osipov	Microscopic mechanisms of the tilt, biaxiality and ferroelectric ordering in smectic liquid crystals.
12.20 – 12.50	G. Moro	Director fluctuations in ordered phases and transverse magnetization relaxation
		lunch break
15.30 – 16.10	Y. Geerts	Discotic liquid crystals : from synthesis to thin film patterning
16.10 – 16.50	F. Biscarini	Organic field effect transistors revisited: from charge tunneling devices to label-free transducers
16.50 – 17.20	T.J. Sluckin	Models of ferroelectric nematic colloidal behaviour
17.20 – 17.40		Coffee break and posters
17.40 – 18.10	G. Skacej	Controlling surface defect valence in colloids
18.10 – 18.30	C. Zannoni	Concluding remarks
20.30		Social Dinner

November 1 Departure

International School of Liquid Crystals

15th Course

Liquid Crystal Phases and Nano-Structures

*A Workshop to celebrate ten years of the
International Liquid Crystal School
and Claudio Zannoni 60th birthday*

Erice, 27 October – 1 November 2008

Posters

- [1] G. Cordoyiannis, D. Apreutesei, G. H. Mehl, C. Glorieux, and J. Thoen Absence of any thermal signature of the Nu-Nb phase transition in high-resolution calorimetry of a liquid crystalline organo-siloxane tetrapode with a Nb phase
- [2] J.C. Dias, R. Teixeira de Souza, R. Atasei, A.L. Alexe-Ionescu, C. Dascalu REORIENTATION EFFECT ON THE CURRENT-VOLTAGE CHARACTERISTICS OF A NEMATIC CELL
- [3] Fangyong Yan, Christopher Adam Hixson, and David J. Earl Self-Assembled Chiral Superstructures Composed of Rigid Achiral Molecules and Molecular Scale Chiral Induction by Dopants
- [4] K. Geese, M. Prehm, C. Tschierske Bent – core molecules with thiophene units
- [5] A. Lehmann, M. Prehm, F. Liu, G. Ungar, C. Tschierske Novel complex mesophases by bolaamphiphilic terphenyl derivatives
- [6] Jan Leys, Joke Allemeersch, Marnik Bercx, Christ Glorieux, and Jan Thoen Aerosil dispersed cyanobiphenyls: results from dielectric spectroscopy on 9CB and 10CB
- [7] J. S. Lintuvuori, M. R. Wilson Statistical temperature molecular dynamics simulations of self-organising fluids
- [8] Isabella Miglioli, Corrado Bacchiocchi, Alberto Arcioni, Ilaria Vecchi, Kashma Rai, Adam Fontecchio, and Claudio Zannoni Order and dynamics inside H-PDLC nanodroplets: an ESR spin probe study
- [9] Yu. P. Panarin, K. L. Sandhya, V. P. Panov, J. K. Vij Study of de Vries properties in Antiferroelectric Smectic Liquid Crystals
- [10] D. Sordi, V. Guglielmotti, S. Orlanducci, E. Tamburri, F. Toschi, M.L. Terranova, M. Lucci, D. Passeri Aligned Single Wall Carbon Nanotubes in Thermotropic Polymer Liquid Crystals: Preparation and Characterization
- [11] C. A. R. Yednak, E. K. Lenzi, and L. R. Evangelista DIRECTOR PROFILE OF A NEMATIC LBETWEEN TWO CONCENTRIC CILINDERS IN WEAK AND STRONG ANCHORING SITUATIONS