

**9th Ibero-American Workshop on Complex Fluids
and
2nd Italian-Brazilian Workshop on Liquid Crystals**

14th to 18th October 2013, Maceió - Brazil

Scientific Program

	10/14/2013	10/15/2013	10/16/2013	10/17/2013	10/18/2013
8:00 - 8:30	Opening Session				
8:30 - 9:15	Invited 1	Invited 4	Invited 7	Invited 8	Invited 11
9:15 - 10:00	Oral Commun.	Oral Commun.	Oral Commun.	Oral Commun.	Oral Commun.
10:00 - 10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:30 - 12:00	Oral Commun.	Oral Commun.	Oral Commun.	Oral Commun.	Oral Commun.
12:00 - 14:00	Lunch	Lunch	Lunch	Lunch	Closing Session
					Lunch
14:00 - 14:45	Invited 2	Invited 5	Free afternoon	Invited 9	
14:45 - 15:45	Oral Commun.	Oral Commun.		Poster Commun.	
15:45 - 16:15	Coffee Break	Coffee Break		Coffee Break	
16:15 - 17:00	Invited 3	Invited 6		Invited 10	

October 14th, 2013

08:00 – 8:30 – Opening Session

08:30 – 09:15 – Invited Speaker

Title: *Liquid Crystals at Interfaces*

Professor Claudio Zannoni

University of Bologna – Italy

09:15 – 10:00 – Oral Communications

9:15 – 9:30 (O-01) **E. Díaz**, M. Dahrouch, J. Barberá, S. Jeria, F. Olate, and M. Parra
New Benzobisthiazole Materials

9:30 – 9:45 (O-02) J. Delgado, **L. T. Thieghi**, and R. Castillo
Ionic strength and temperature as scaling properties of flow curves for CTAB/NaSal wormlike micellar solutions

9:45 – 10:00 (O-03) **J. V. Malaquias** and M. A. A. Barbosa
Computer simulation of systems controlled drug delivery using chitosan

10:00 – 10:30 – Coffee Break

10:30 – 12:00 – Oral Communications

10:30 – 11:00 (OE-01) **Ivan H. Bechtold**
Columnar liquid crystals designed for organic electronics

11:00 – 11:15 (O-04) **R. T. Teixeira-Souza**, C. Chiccoli, P. Pasini, C. Zannoni, and L. R. Evangelista
Role of Elastic Anisotropy on Director Orientations in Concentric Cylinders: a Monte Carlo investigation

11:15 – 11:30 (O-05) **Lidiane Omena** and Italo N. de Oliveira
Anomaly on the thermal diffusion of liquid crystals doped with fullerene in the vicinity of smectic-A - nematic phase transition

11:30 – 11:45 (O-06) **Eduard Westphal**, Marko Prehm, Carsten Tschierske, and Hugo Gallardo
1,3,4-oxadiazole bent-shaped liquid crystals containing linear carbosilane units as segregating groups

11:45 – 12:00 (O-07) **Patricia Tuzimoto** and Hugo Gallardo
Luminescent Liquid Crystals Derived from 9,10-anthraquinone

12:00 – 14:00 – Lunch

14:00 - 14:45 – Invited Speaker

Title: *Cellulose in Motion*
Professor Maria Helena Godinho
Universidade Nova de Lisboa – Portugal

14:45 – 15:45 – Oral Communications

14:45 – 15:00 (O-08) **F. C. M. Freire**, D. D. Luders, M. Simoes, N. M. Kimura and A. J. Palangana
Colors Entropy versus Thermodynamic Entropy analysis in nematic textures.

15:00 – 15:15 (O-09) **A. C. Windisch**, E. Westphal, F. Molin, and H. Gallardo
Triphenol Tristriazolotriazine: a Versatile Core for Luminescent Discotic Liquid Crystals

15:15 – 15:45 (EO-02) **Epifânio Virga**
Aggregation and Mean Field for Ferrofluid Monolayers

15:45 – 16:15 – Coffee Break

16:15 – 17:00 – Invited Speaker

Title: *Up-conversion processes in nanostructured liquid crystals*
Professor Eduardo Soto-Bustamante
University of Chile – Chile

October 15th, 2013

08:30 – 09:15 – Invited Speaker

Title: *Amphiphilicity in Liquid Crystals*
Professor Duncan Bruce
University of York - United Kingdom

09:15 – 10:00 – Oral Communications

9:15 – 9:30 (O-10) Thamires dos S. Moreira, Deise M. P. de O. Santos, Patricia Tuzimoto, Ivan H. Bechtold, Hugo Gallardo, **Rodrigo Cristiano**

Synthesis and characterization of luminescent liquid crystals containing thiazole and 1,3,4-thiadiazole units

9:30 – 9:45 (O-11) **D. Espinosa**, L. B. Carlsson, S. Alves, and A. M. Figueiredo Neto

The influence of the nanoparticle's size on the two-photon absorption coefficient of magnetite ferrofluids

9:45 – 10:00 (O-12) M. Parra, F. Olate, S. Jeria, and **J. Vergara**

Symmetric diesters based on 1,3,4-thiadiazole: Synthesis and Mesomorphic properties

10:00 – 10:30 – Coffee Break

10:30 – 12:00 – Oral Communications

10:30 – 11:00 (EO-03) O. R. dos Santos, W. S. Braga, A.J.Palangana, and **L.Q. Amaral**

Uniaxial and biaxial nematic phases in sodium dodecyl sulphate - decanol – D2O lyotropic mixtures. An optical conoscopy study.

11:00 – 11:15 (O-13) **S. Leal**, C. A .Jiménez, J. Pasán, C. Ruiz-Perez, M. L. Parra, and P. I. Hidalgo

Halogen v/s Hydrogen bonding: mesomorphic behavior in pyridyl-1,3,4-thiadiazole derivatives/1,4-donors trimeric complexes

11:15 – 11:30 (O-14) **R. S. Zola**, **L. R. Evangelista**, **Y.-C Yang**, **D.-K. Yang**

Surface induced phase separation and pattern formation at the isotropic interface in chiral nematic liquid crystals

11:30 – 12:00 (EO-04) Z. Rozynek, A. Mikkelsen, P. Dommersnes, and **J. O. Fossum**

Active structuring of colloidal shells on drops by electric fields

12:00 – 14:00 – Lunch

14:00 - 14:45 – Invited Speaker

Title: *New lyotropic nematic and cholesteric biaxial mesophases*

Professor Antônio Martins Figueiredo Neto

Universidade de São Paulo – Brazil

14:45 – 15:45 – Oral Communications

14:45 – 15:00 (O-15) Luana D. Lopes, and **Aloir A. Merlo**
Synthesis of perfluorated isoxazolines and isoxazoles

15:00 – 15:15 (O-16) **C. S. Risi**, A.M. Figueiredo Neto, E Akpinar, and M.B. Lacerda Santos
Dynamic light scattering and viscosity measurements in a ternary and quaternary discotic lyotropic nematic liquid crystal: tuning the backflow with salt

15:15 – 15:45 (EO-05) R. Asquini, and **A. d'Alessandro**
Guided wave all-optical devices based on liquid crystals

15:45 – 16:15 – Coffee Break

16:15 – 17:00 – Invited Speaker

Title: *¹H-NMR relaxometry, viscometry, and PFG NMR studies of magnetic and nonmagnetic ionic liquids*

Professor Pedro Sebastião
University of Lisboa - Portugal

October 16th, 2013

08:30 – 09:15 – Invited Speaker

Title: *Topological soft matter*

Professor Slobodan Zumer
University of Ljubljana - Slovenia

09:15 – 10:00 – Oral Communications

9:15 – 9:30 (O-17) **N. M. Silvestre**, Z. Eskandari, M. Tasinkevych, and M.M. Telo da Gama
Bonded boojum-colloids in nematic liquid crystals

9:30 – 9:45 (O-18) **Dennys Reis**, Erol Akpinar, and Antônio Martins Figueiredo Neto
Effect of Alkyl Chain Length of Alcohols on the Cholesteric to Cholesteric Phase Transitions in Lyotropic Liquid Crystals

9:45 – 10:00 (O-19) J. N. B. de Moraes and **W. Figueiredo**
Route to thermodynamic equilibrium of micelle aggregates

10:00 – 10:30 – Coffee Break

10:30 – 12:00 – Oral Communications

10:30 – 11:00 (EO-06) Raquel Portela, Pedro L. Almeida, Pedro Patrício, Teresa Cidade, Rita G. Sobral, and Catarina R. Leal

How can rheology help to study the growth and death of bacteria?

11:00 – 11:15 (O-20) S. Alves, E. Silva, and F. L. A. Fonseca

Kinetics of plasma and urinary DNA with the Z-Scan application in patients with urothelial bladder carcinoma

11:15 – 11:30 (O-21) Marco A. A. Barbosa

Liquid-liquid phase transitions and waterlike thermodynamic and dynamic anomalies

11:30 – 12:00 (EO-07) Alfredo Mazzulla, Raúl Josué Hernández, Roberto Bartolino, Karen Volke-Sepulveda, and Gabriella Cipparrone

Chiral microparticles in circular polarized light traps

12:00 – 14:00 – Lunch

14:00 – 17:00 – Free afternoon

October 17th, 2013

08:30 – 09:15 – Invited Speaker

Title: *Hydrodynamics of thin smectic films*

Professor Ralf Stannarius

University of Magdeburg - Germany

09:15 – 10:00 – Oral Communications

9:15 – 9:30 (O-22) V.M Lenart, I.H. Bechtold, R.F. Turchiello, A.M. Figueiredo Neto, and S.L. Gomez

Nonlinear optical properties of the E7 thermotropic liquid crystal in the ms timescale at the nematic-isotropic phase transition

9:30 – 9:45 (O-23) Carlos Ratto, and Hugo Gallardo

Side products from Sonogashira's Cross Coupling Reaction. New molecules with Mesomorphic Properties

9:45 – 10:00 (O-24) **Sérgio Augusto Sanches**, Aloir Merlo, Renato Paim Halfen
Synthesis and Characterization of new Azo Aromatic Liquid Crystals

10:00 – 10:30 – Coffee Break

10:30 – 12:00 – Oral Communications

10:30 – 11:00 (EO-08) **Rolando Castilho**
Microrheology of Concentrated Suspensions of Thread-like Supramolecular Structures.

11:00 – 11:15 (O-25) **M. Ferreira**, E. Westphal, G. B. Milani, I. H. Bechtold and H. Gallardo
Columnar Phase Formed by a Bent-core Mesogen Containing 1,3,4-Oxadiazole

11:15 – 11:30 (O-26) **Rafael L. Coelho** and Hugo Gallardo
Synthesis and Study of mesomorphic properties of Aza-BODIPY derivatives

11:30 – 12:00 (OE-09) **C.Versace**, G. Pucci, C.Vena, and R.Barberi
Thermal Behavior of the Electrically Driven Turbulence to Turbulence Transition in Nematic Layers

12:00 – 14:00 – Lunch

14:00 - 14:45 – Invited Speaker

Title:
Professor

14:45 – 15:45 – Poster Communications

15:45 – 16:15 – Coffee Break

16:15 – 17:00 – Invited Speaker

Title: *Instabilities and pattern formation in thin liquid films: from micrometric to nanometric scales*

Professor Javier A. Diez
Universidad Nacional del Centro - Argentina

October 18th, 2013

08:30 – 09:15 – Invited Speaker

Title: *Topological Colloids and Liquid Crystals Defects Dictated by Topologically Nontrivial Surfaces*

Professor Ivan I. Smalyukh

University of Ljubljana - Slovenia

09:15 – 10:00 – Oral Communications

9:15 – 9:30 (O-27) **C. L. P. Oliveira**

Investigating self-assembly systems using scattering methods

9:30 – 10:00 (EO-10) **Francesco Spinozzi** and Lia O. Amaral

Gel – Liquid Crystal Phase Transition in the Lyotropic Biomembrane with DMPG

10:00 – 10:30 – Coffee Break

10:30 – 12:00 – Oral Communications

10:30 – 11:00 (EO-11) **G. Strangi**

11:00 – 11:15 (O-28) **E.S.Goncalves**, J. Depeyrot, F.A.Tourinho, R.Aquino and A.M.Figueiredo Neto

Linear and nonlinear optical properties of ferrofluids: Nanoparticle's size effect

11:15 – 11:30 (O-29) **Rafael Leite Rubim**, Kévin Bougis, Barbara Gerbelli, Emerson da Silva, Cristiano Oliveira, Laurence Navailles, Frédéric Nallet and Elisabeth Andreoli de Oliveira

Effects of ethoxylated fatty acids in lipid membranes by SAXS investigations

11:30 – 12:00 (EO-12) **Paulo Pasini**

12:00 – Closing Session