



VENUE

The School will be held at the Centre for Scientific Culture "Ettore Majorana" in Erice, a small town of Sicily in the South of Italy with a great tradition of hosting high quality scientific meetings (<http://www.ccsem.infn.it/>).

The arrival of participants should be on Sunday July 3 and the departure will be scheduled on Sunday July 10.

REGISTRATION

The total fee for the meeting, which includes full board and lodging (arranged by the E. Majorana Centre) and the local transportation, is 750 Euro. A limited number of fellowships will be available to cover in part the cost of attendance. Interested individuals are kindly requested to attach a curriculum to their applications. Persons interested in attending the course should complete the enclosed application form and send it to:

Dr. Paolo Pasini
 INFN
 Sezione di Bologna
 Via Irnerio 46
 40126 BOLOGNA Italy
 email: pasini@bo.infn.it

EARLY APPLICATION IS STRONGLY ENCOURAGED
 Closing date for application: April 15th, 2011.

Liquid crystal nanostructures and self-assembling: from organic electronics to metamaterials

2nd School of the Italian Liquid Crystal Society

APPLICATION FORM

Surname.....

Name.....

Date and place of birth.....

Present nationality.....

Degree and other academics qualifications.....

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Present position and place of work.....

Address.....

Zip..... City.....

Country.....

Tel.....Fax.....

E-mail.....

Current research interests.....

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List of publications (enclosed)

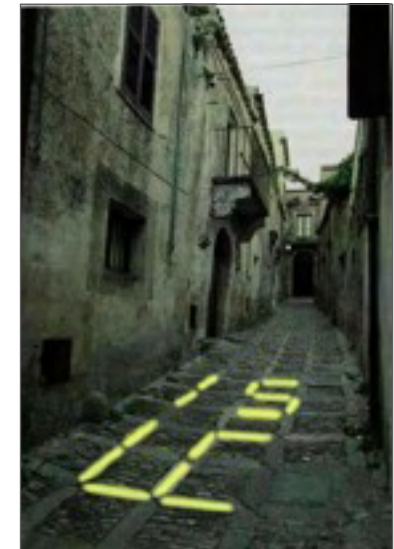
I am willing to present a contribution (poster only) :
 yes Tentative title:
 no




International School of Liquid Crystals 18th Course

2nd School of Italian Liquid Crystal Society

Erice, 3 - 10 July 2011



Liquid crystal nanostructures and self-assembling: from organic electronics to metamaterials

The School is technically sponsored by  **IEEE Photonics Society**
 ITALY CHAPTER



2nd School of Italian Liquid Crystal Society

Purpose of the School

The SICL Schools are aimed to Ph.D. students and young Post-Docs in Physics, Chemistry, Mathematics and Engineering who are interested in widening their knowledge of Liquid Crystals and related fields with particular focusing in nanoscience and nanotechnology.

The objective of the second SICL School is to provide a state-of-the-art review of the rapidly evolving experimental and theoretical techniques employed in the study of these fields. After an introduction on LC physics and chemistry, the contents of this second SICL School will cover the state-of-the-art of the rapidly evolving experimental, theoretical and computational techniques, which interface novel liquid crystal and nanocomposite molecular organization to the emerging fields of organic electronics and metamaterials through self-assembly. The School will consist of 6 working days with 15-17 lecturers.

The number of participants will be limited to about 50 to allow a wide opportunity to take part fully in the proceedings and discussions of the Course. Updated information can be found at www-th.bo.infn.it/islc.

TOPICS

Tentatively the following topics will be covered:

- Introduction to LC optics and photonics
- Introduction to LC defects
- Introduction to synthesis of LC and novel biaxial compounds
- Negative index dielectrics using LC
- Traditional and novel NMR techniques for LC systems
- NMR studies of solutes in LC
- Description of molecular organizations in LC
- Modelling techniques for LC
- Optical metamaterials: from basic physics to applications
- Liquid crystal semiconductors and applications
- Discotic liquid crystal and organic electronics
- Self assembling and molecular packing properties
- Chirality and self-assembled nanostructures
- X-ray techniques for LC investigations
- Chemistry of Self-Organized Nanocomposites for negative refractive index materials

INVITED SPEAKERS

A list of confirmed invited speakers includes:

James Emsley, University of Southampton, UK
Claudio Zannoni, University of Bologna, Italy
Giuseppe Strangi, University of Calabria, Italy
Attilio Golemme, , University of Calabria, Italy
Peter Barois, CNRS, Université de Bordeaux 1, France
Georg Mehl, University of Hull, UK
Epifanio Virga, University of Pavia, Italy
Valentina Domenici, University of Pisa, Italy
Slobodan Zumer, University of Ljubljana, Slovenia
Dean Evans, Air Force Research Laboratories, USA
Randy Kamien, University of Pennsylvania
Mary O'Neill, University of Hull, UK

Directors of the course:

A. d'Alessandro, P. Pasini and C. Zannoni

Scientific Committee:

G. Assanto, A. d'Alessandro, G. De Luca, P. Pasini, G. Strangi, E. Virga, C. Zannoni