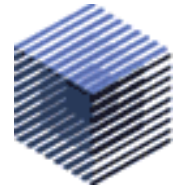




Università degli studi Federico  
II di Napoli



Istituto Nazionale per la  
Fisica della Materia



## *9<sup>th</sup> International Topical Meeting on Optics of Liquid Crystals Sorrento Palace Hotel - Sorrento (Naples) - Italy*

### *Second Announcement and Call for papers*

The 9<sup>th</sup> International Topical Meeting on Optics of Liquid Crystals will be held at Sorrento Palace Hotel in Sorrento (Italy) from October 1<sup>st</sup> to 6<sup>th</sup> 2001.

#### ◆ **About the Conference**

The aim of the meeting is to provide an international forum for exchange of scientific ideas and technological advances in optics and related aspects of Liquid Crystals (LCs) and LCs based materials through the participation of scientists, researchers and engineers active in the field from all over the world.

The conference program has been designed to fulfil the purpose to give a particular emphasis to main topics that are actually subject of intense research, i.e. LCs Photonics; LCs and Waveguides; Dyes, Photo-Chemistry and Materials with Ultra-high Optical Nonlinearities; Instabilities, Pattern Formation and Chaos; Novel Phenomena in LCs; New Display and Micro-Display Applications; Lyotropic and Polymer Systems.

LC technology is continuously in focus for new or improved applications in many industrial and scientific areas. Some of these applications already result in well-established industries as well as others are still being explored due to the promising results of ongoing researches. Among these applications we can mention: LC Displays; LC-telecom devices; Optical networks; Visualization of RF waves in Waveguides; Optical imaging and recording; Spatial Light Modulators; Adaptive Optics.

The relevance of some industries involved, above all electronics and optoelectronics, and high profitable market applications to assess, make the scientific research on optics of LC a high priority in technologically advanced countries.

Since it is the only international conference totally devoted to the optics of LC, the meeting plays a unique role in the dissemination of recent scientific results to a wide industrial and scientific community interested in the field.

#### ◆ **Program**

The conference program will consist of plenary and invited talks, contributed oral and poster presentations with particular emphasis on:

- A. General Optics
- B. Nonlinear Optics
- C. Surfaces and Interfaces
- D. Composites and confined systems
- E. Liquid Crystals Photonics
- F. Liquid Crystals and Waveguides
- G. Dyes, Photo-Chemistry and Materials with Ultra-high Optical Nonlinearities
- H. Instabilities, Pattern Formation and Chaos
- I. Novel Phenomena in Liquid Crystals
- J. New Display Applications
- K. Lyotropic and Polymer Systems

### ◆ Preliminary list of invited speakers

<b>Aliev F.</b>	Univ. of Puerto Rico, Puerto Rico, USA
<b>Copic M. J.</b>	Stefan Inst. of Ljubljana, Slovenia
<b>Crossland W.</b>	Univ. of Cambridge, UK
<b>Galstian T. V.</b>	Univ. of Laval, Canada
<b>Hanna J.</b>	Tokio Inst. of Technology, Japan
<b>Henninot J.F.</b>	Univ. of Artois in Lens, France
<b>Hermann D.S.</b>	Chalmers Un. Gothenburg, Sweden
<b>Ikeda T.</b>	Tokio Inst. of Technology, Japan
<b>Jákli A.</b>	LCI Kent State Univ., USA
<b>Khoo I.C.</b>	Penn State Univ., USA
<b>Kosa T.</b>	LCI Kent State Univ., USA
<b>Kreuzer M.</b>	T. Univ. of Darmstadt, Germany
<b>Lacey D</b>	Univ. of Hull, UK
<b>Lavrentovich O.</b>	LCI Kent State Univ., USA
<b>Ong H.</b>	Kopin Corporation, Taiwan
<b>Oton J. M.</b>	Univ. Polit. of Madrid, Spain
<b>Palfy-Muhoray P.</b>	LCI Kent St. Un., USA
<b>Ramanujam P.S.</b>	RISOE, Denmark
<b>Reznikov Y.</b>	Ukrain. Ac. of Sciences, Ukraine
<b>Santamato E.</b>	Univ. of Naples, Italy
<b>Shen Y. R</b>	UC Berkeley, USA
<b>Simoni F.</b>	Univ. of Ancona, Italy
<b>Tabiryan N.</b>	BEAM Corporation, USA
<b>Umeton C.</b>	Univ. of Cosenza, Italy
<b>Warengem M.</b>	Univ. of Artois in Lens, France
<b>Yamamoto J.</b>	Tsukuba Res. Consortium, Japan
<b>Zel'dovich B.</b>	CREOL Univ. Central Florida, USA

### ◆ Scientific Advisory Board

<b>Markus Kreuzer S. A. B. Chairman</b>	University of Technology of Darmstadt GERMANY
<b>Giancarlo Abbate Conference Chair</b>	Università di Napoli "Federico II" ITALY
<b>Fouad Aliev</b>	University of Puerto Rico U.S.A.
<b>Martin Copic</b>	Jozef Stefan Institute - Ljubljana SLOVENIA
<b>Istvan Janossy</b>	Academy of Sciences SZFKI - Budapest HUNGARY
<b>Iam-Choon Khoo</b>	Pennsylvania State University U.S.A.
<b>Rainer Macdonald</b>	Technical University of Berlin GERMANY
<b>Peter Palfy-Muhoray</b>	Kent State University U.S.A.
<b>Yuri Reznikov</b>	National Academy of Sciences Kiev UKRAINE
<b>Francesco Simoni</b>	Università di Ancona ITALY
<b>Nelson Tabiryan</b>	BEAM Corporation U.S.A.
<b>Marc Warengem</b>	Université d'Artois - LPCIA- Lens France

### ◆ Organizing Committee

<b>Giancarlo Abbate Conference Chair</b>	Università di Napoli "Federico II"
<b>Enrico Santamato</b>	Università di Napoli "Federico II"
<b>Lorenzo Marrucci</b>	Università di Napoli "Federico II"
<b>Domenico Paparo</b>	Istituto Nazionale per la Fisica della Materia
<b>Francesca Castaldo</b>	Promete s.r.l. INFN Spin-off Company

### ◆ Conference Location

Nestling in the spectacular coastline of the Bay of Naples, with the impressive Mount Vesuvius on the horizon and the marvels of the Amalfi coast just a stone's throw away, is Sorrento with its clear waters, blue sky and mild air - a scene of outstanding beauty unequalled by any other in the world.

Here, in the middle of what the ancients used to term 'Campania Felix', the land of bliss, the comfortable modern premises of the Sorrento Palace Hotel will make your stay a very special, exclusive and, in short, unforgettable experience. The efficiency of a state-of-the-art Congress Center and the lush and comfortable surroundings of a first class hotel beautifully harmonized with the typical atmosphere and tradition of Sorrento will give a special touch to the conference.



### ◆ Contributed papers submission

Abstracts with no more than 400 words describing purpose, methods, results, new or breakthrough work to be presented, and conclusions of the work should be submitted within **May 15th 2001**. Electronic submission via the Internet site [www.na.infn.it/olc2001](http://www.na.infn.it/olc2001) is preferred. However, submission via e-mail to [olc2001@na.infn.it](mailto:olc2001@na.infn.it) or fax to +39-081-676346 or regular mail to the Conference Secretariat address is also welcome. Please avoid submitting your abstract in two different ways.

Abstracts submitted online are made available immediately to conference Committees for review.

***A number of additional invited speakers can be selected from the contributed abstracts arrived within the deadline.***

Important and new results can be submitted as post-dead-line papers until September 15th 2001. Post-dead-line papers will be presented at the conference as posters.

### **Electronic presentations**

LCD projectors for electronic presentations by a PC file will be available. Invited and contributed oral presentations in electronic form will be preferred.

### ◆ Proceedings

Thanks to the sponsorship of Gordon&Breach Publishers, the conference proceedings will be published in a special issue of Molecular Crystals and Liquid Crystals. Deadline for manuscript presentation is **October 1<sup>st</sup>, 2001**. Deadline must be **strictly respected** because manuscripts will be peer reviewed during the conference. Instructions for camera ready preparation of the manuscripts will be sent to all registered participants and published on the web site. Invited, contributed and post-deadline authors are encouraged to submit their work for publication in this special issue.

### ◆ Mailing list and dissemination of information.

The second announcement will be diffused mainly through e-mail lists. Informations on paper will be sent to a number of Institutions and Organizations involved in scientific research in Optics and in Liquid Crystals. You are kindly requested to diffuse this announcement among all your colleagues, co-workers and interested people. You are also invited to report name and e-mail address of people willing to receive further announcements to the conference address [olc2001@na.infn.it](mailto:olc2001@na.infn.it).

Please consider that the most comprehensive and updated source of information related to the conference is the web site [www.na.infn.it/olc2001](http://www.na.infn.it/olc2001).

### ◆ Tutorial course BALC2001 - September 30<sup>th</sup> - October 1<sup>st</sup> 2001

***Basics and perspective applications of LC in Optical Communication Technologies***

*Directors: Markus Kreuzer, Giancarlo Abbate and Marc Warengem*

A one and half day tutorial joint to OLC2001 will be organized at the same location. The tutorial will be held on September 30<sup>th</sup> full day and October 1<sup>st</sup> morning just before the conference that will start on the afternoon.

The tutorial topic will be *Basics and Application of LC in Optical Communication Technologies*, it will be devoted mainly to young scientist and PhD students although attendance by expert scientists is equally welcome. An electronic booklet containing the lectures' presentation is foreseen. For tutorial's attendees arrival in Sorrento is expected on Saturday September 29<sup>th</sup> 2001.

### Tentative Tutorial Program

No.	Lecture Topics	Lecturers
1-2-3	3 Lectures: Basic Optics; New effects; Molecular design	<b>E. Santamato</b> Naples University, Italy <b>F. Simoni</b> Ancona University, Italy <b>R. Eidenschink</b> Nematel, Germany
4-5	2 Lectures: Basics of optical communication and telecommunication in general	<b>D. Columbus</b> NORTEL, Germany
6-9	4 Lectures: LC devices' preparation and characterization	<b>T. Kosa</b> Kent University, USA <b>O. Lavrentovich</b> Kent Univ., USA <b>L. Marrucci</b> Naples University, Italy <b>D. Hermann</b> Chalmers Univ., Sweden
10-11	2 Lectures: Addressing real devices; how to realize them	<b>T. Wilkinson</b> Cambridge Univ., UK <b>M. Kreuzer</b> Darmstadt Univ, Germany
12-14	3 Lectures: Some components/devices for specific applications	<b>J. P. Huignard</b> Thomson CSF, France <b>M. Warengem</b> Artois Univ., France <b>B. Crossland</b> Cambridge Unive., UK
	Conclusions	<b>G. Abbate</b> Naples University, Italy

## ◆ Registrations

Conference Fees	Before July 31 <sup>st</sup>	Before September 28 <sup>th</sup>	At the Conference
Regular	ITL 600,000 (€ 310)	ITL 700,000 (€ 362)	ITL 730,000 (€ 377)
Students	ITL 400,000 (€ 207)	ITL 500,000 (€ 258)	ITL 520,000 (€ 269)
Students including tutorial	ITL 500,000 (€ 258)	ITL 600,000 (€ 310)	not available
Accompanying persons	ITL 300,000 (€ 155)	ITL 350,000 (€ 181)	ITL 370,000 (€191)
Tutorial only	ITL 200,000 (€ 103) <b>within September 15<sup>th</sup></b>		

### Amounts in Italian Lire (ITL) [and in EURO (€)]

Participants are eligible for reduced registration fees if they register before July 31, 2001.

### ◆ Hotel accommodation at Sorrento Palace Hotel

Double room: 177,500 ITL [91.67 €]

Single room: 280,000 ITL [144.61 €]

*Rates are given per person and per day.*

**Amounts in Italian Lire ITL [and in EURO €].** These include buffet breakfast and light lunch.

**PLEASE NOTICE:** the conference period is High-Season period for Sorrento. After **15/08/2001** rooms availability and reduced rates will be not guaranteed.

**Room reservation must be arranged directly with the Hotel management using the Hotel accommodation form (see below).**

Hotel Sorrento Palace

Via S. Antonio, 80067 - Sorrento Napoli - ITALY

Tel.: +39 081 8784141

Fax: +39 081 8783933

E-mail: info@sorrentopalace.it

More informations and all the forms for registration, abstract submission and hotel accommodation are available at the conference web site: [www.na.infn.it/OLC2001](http://www.na.infn.it/OLC2001)

**Please use those forms either on-line or off-line for your registration and reservation.**

### ◆ Conference Secretariat /Correspondence

#### Dr. Francesca Castaldo

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Web site: [www.na.infn.it/OLC2001](http://www.na.infn.it/OLC2001)

#### Conference Chairman

Prof. Giancarlo Abbate

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