

**Institute of Physics NAS of Ukraine  
National Academy of Sciences (NAS) of Ukraine  
V.I.Vernadsky Taurida National University  
Ministry of Ukraine for Education and Science  
SPIE – The International Society for Optical Engineering Ukrainian Chapter**

**10<sup>th</sup> International Conference**

**NONLINEAR OPTICS OF LIQUID AND PHOTOREFRACTIVE CRYSTALS**

**NOLPC'2004**

**October 3 - 8, 2004, Crimea, UKRAINE**

*First Announcement  
And Call for Papers*

NOLPC'2004 is aimed to provide the opportunity for the interdisciplinary exchange of the recent advances and discussion on the latest results in the fields concerning material sciences, physical properties and applications of liquid and photorefractive crystals. NOLPC'2004 is the 10th one in the row of the meetings on this topic held in Crimea, Ukraine.

**SCIENTIFIC PROGRAM**

1. Optics and nonlinear optics of liquid crystalline compounds.

- A - optics and new aspects of nonlinear optical effects in liquid crystals;
- B - new ways of orientation of liquid crystals;
- C - synthesis and structure of novel liquid crystalline compounds;
- D - new approach based on the surface influence upon bulk liquid crystal's properties;
- E - prospects of application of liquid crystals for optical processing and information display.

2. Nonlinear optics of photorefractive materials. Achievements and new approaches.

- A - new photorefractive materials;
- B - crystal growth, poling and characterisation;
- C - photorefractive solitones, light-induced scattering and fanning;
- D - photorefractive effects/theory of photorefraction
- E - photorefractive materials in image processing, storage and interferometry.

**Conference Chairs** – Prof. Gertruda V. Klimusheva, Institute of Physics, Kiev, Ukraine  
– Prof. Nikolai V. Kukhtarev, AA&M University, Normal, USA

**Organizing committee secretary**

– Mr. Andrey G. Iljin, Institute of Physics, Kiev, Ukraine

**Language:** The official language of the Conference is English.

**Facilities:** Session rooms will be equipped with multimedia, overhead and slide projectors.

**Location:** The conference will be held in world-known South Black Sea coast of Crimea with picturesque landscapes, Crimean mountains, numerous health resorts.

*The materials* of the Conference and the Topical Meeting will be published in a special issue of SPIE Proceedings.

## SUBMISSION of ABSTRACTS

Your abstract should include the following:

1. ABSTRACT TITLE
2. AUTHOR LISTING (principal author first)  
Full names and affiliations
3. CORRESPONDENCE FOR *EACH* AUTHOR  
Mailing address, telephone, fax, e-mail address
4. SUBMIT TO:  

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Choose one	(Conference topic)
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5. PRESENTATION  
Indicated your preference for “Oral presentation” or “Poster presentation”
6. ABSTRACT TEXT  
One page

### **ABSTRACT DUE DATED: May 15, 2004**

#### **To be considered for acceptance, you may**

- send abstract via electronic mail to [lgtc@iop.kiev.ua](mailto:lgtc@iop.kiev.ua)
- or mail two copies to Organizing Committee address:

**Andrey G. Iljin**  
**Institute of Physics**  
**Prospect Nauki 46**  
**Kiev 03039 UKRAINE;**

Phone: +38 (044) 265 5679;

Fax: +38 (044) 265 1589

- Applicants will be notified of acceptance by **15 June 2004**

Ukrainian Chapter of SPIE (SPIE - The International Society for Optical Engineering) is officially recognized organization from 1993 (certified by the Ministry of Justice of Ukraine on the 25<sup>th</sup> April, 1994) and founded on the basis of SPIE Ukrainian National Committee. The establishment of the SPIE Ukrainian National Committee was authorized by the Board of Directors of SPIE on the 7<sup>th</sup> of April, 1992, in accordance with the SPIE bylaws.

Activity of SPIE/Ukraine Chapter is directed towards increased efficiency of the information exchange between scientists and specialists of Ukraine and world community in the field of development and application of optic, optoelectronic, electrooptic and laser techniques and technology and specialist exchange.

SPIE/Ukraine Chapter promoted creation of Student Chapters of SPIE in such universities as Chernivtsy State University, Taras Shevchenko National University of Kiev, Vinitsa State Technical University, Kiev National Technical University, V.I. Vernadsky Taurida National University, Simferopol, Crimea, Ukraine.

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