

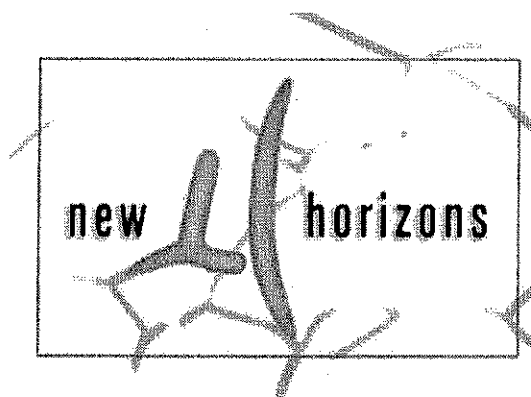
National Academy of Sciences of Ukraine
Korea Science and Engineering Foundation

**AMERICAN-UKRAINIAN-KOREAN
Joint Workshop:**

**“New Horizons of Liquid Crystals
Science and Application”**

24-27 June 2007, Kyiv (Ukraine)

Organized by Institute of Physics
National Academy of Sciences of Ukraine



Final announcement

Attendance by invitation only

Under the auspices of The Optical Society of America

Organizing Committee:

Chairmen:

Prof. Yuriy Reznikov	Institute of Physics, National Academy of Sciences of Ukraine
Prof. John West	Kent State University, Kent, USA
Prof. KiRyong Ha	Dept. of Chemical Engineering, Keimyung University, Korea

Secretary:

Dr. Elena Ouskova	Institute of Physics, National Academy of Sciences of Ukraine <u>ouskova@iop.kiev.ua</u>
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Treasurer:

Dr. Andrey Iljin	Institute of Physics, National Academy of Sciences of Ukraine
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Local Organizing Committee members:

Natalie Aryasova	Institute of Physics, National Academy of Sciences of Ukraine
Oleksandr Buchnev	
Olena Bukarasyeva	
Oleksandr Buluy	
Denis Fedorenko	
Kostyantyn Slusarenko	

Sponsorship:

- Hanyang University, Korea
- Office of Naval Research Global
- U.S. Army International Technology Center-Atlantic, Research Division
- The Society for Information Display
- The Optical Society of America

Dear colleagues!

The AMERICAN-UKRAINIAN-KOREAN Joint Workshop "New Horizons of Liquid Crystals Science and Application" will be held on June 24-27, 2007 in Kyiv, Ukraine. The meeting will bring together the most prominent researchers working in the various fields of liquid crystal research ranging from fundamental studies of physical and material properties to their applications in displays and telecommunications.

Location and Accommodation:

The 4-star hotel 'President Hotel' will accommodate the workshop and the participants.

Sessions will start at 9.00 on June 25 - 27 in the Conference Centre of the hotel.

The rooms for registered participants were booked by the Organizing Committee according to the requests and arrival/departure dates indicated in the application forms submitted.

Particular payment information and invoices will be sent individually by June 1, 2007.

Travel arrangements:

All the guests are kindly requested to provide the Organizing Committee with their exact itineraries, especially of arrival details (flight #, time, date), for organization of the proper transportation.

Conference proceedings:

A limited issue of the Meeting Proceedings on a CD will be made for distribution among the participants and sponsoring organizations. The Proceedings will comprise multi-media presentations files to be submitted to the Organizing Committee on your earliest convenience before June 25.

Oral presentation:

Each of the speakers will have 30 minutes for the talk including a short discussion.

Workshop schedule

22-24 June 2007 Arrival. Meeting the participants

24 June 2007

Afternoon

Excursion

Night

"Get together" party

25 June 2007 Opening Ceremony,
LC Physics

- | | | |
|----------------------|--|---|
| 8:55 – 9:00 | Yuri Reznikov,
Institute of Physics,
National Academy of
Sciences, Kyiv, Ukraine | Workshop Opening |
| 9:00 – 9:30 | Sin-Doo Lee,
Seoul National
University, Korea | MOLECULAR ORDER AT
INTERFACES FOR ORGANIC
ELECTRONICS AND BIOLOGICAL
APPLICATIONS |
| 9:30 – 10:00 | Jonathan Selinger,
Kent State University,
Kent, OH, USA | SHAPE SELECTION IN SELF-
ASSEMBLED CHIRAL MEMBRANES:
NEW MECHANISM BASED ON THE
FLEXOELECTRIC EFFECT |
| 10:00 – 10:30 | Oriano
Francescangeli,
Università Politecnica
della Marche, Ancona,
Italy | FERROELECTRIC RESPONSE IN A
FLUID NEMATIC PHASE |
| 10:30 – 11:00 | Victor Reshetnyak,
Kiev National Taras
Shevchenko University,
Ukraine | PHOTOREFRACTIVE EFFECT IN
HYBRID ORGANIC-INORGANIC
LIQUID CRYSTAL CELL |
| 11:00 – 11:30 | | Coffee break |
| 11:30 – 12:00 | Sung Tae Shin,
Samsung Electronics,
Korea | THE STUDIES OF THE MOTION OF
VERTICAL ALIGNED BIAXIAL
NEMATIC LIQUID CRYSTAL |
| 12:00 – 12:30 | Timothy Sluckin,
University of
Southampton, UK | THEORIES OF BIAXIAL LIQUID
CRYSTALS |
| 12:30 – 13:00 | Vassili Nazarenko,
Institute of Physics,
National Academy of
Sciences, Kyiv, Ukraine | LYOTROPIC CHROMONIC LIQUID
CRYSTALS: FROM MOLECULES TO
CRYSTAL |

13:00 – 14:30

14:30 – 15:00 **Patrick Davidson,**
CNRS, Université Paris
Sud, Orsay, France

15:00 – 15:30 **Martin Čopič,**
University of Ljubljana
& Jozef Stefan Institute,
Ljubljana, Slovenia

15:30 – 16:00 **Yuri Reznikov,**
Institute of Physics,
National Academy of
Sciences, Kyiv, Ukraine

Lunch

LIQUID CRYSTALLINE AQUEOUS
CLAY SUSPENSIONS

DIRECTOR AND POLARIZATION
FLUCTUATIONS IN SUSPENSIONS
OF FERROELECTRIC
NANOPARTICLES IN NEMATIC
LIQUID CRYSTALS

LIQUID CRYSTAL FERROELECTRIC
NANOCOLLOIDS

26 June 2007 LC Physics and LC Chemistry

9:00 – 9:30 **Slobodan Žumer,**
University of Ljubljana
& Jozef Stefan Institute,
Ljubljana, Slovenia

NEMATIC COLLOIDAL DIMERS,
WIRES, AND LATTICES

9:30 – 10:00 **Kenneth Singer,**
Case Western Reserve
University, Cleveland,
OH, USA

LIQUID CRYSTALLINE
SEMICONDUCTING MATERIALS AND
NANOSTRUCTURES

10:00 – 10:30 **Bohdan Lev,**
Bogolyubov Institute of
Theoretical Physics,
National Academy of
Sciences, Kyiv, Ukraine

INTERACTION AND STRUCTURE
FORMATION IN LIQUID CRYSTAL
COLLOIDS

10:30 – 11:00 **Janósz Parka,**
Institute of Applied
Physics, Military
University of
Technology, Warsaw,
Poland

LIQUID CRYSTAL ANISOTROPY
PROPERTIES AND POSSIBILITY OF
THEIR INVESTIGATIONS IN
TERAHERTZ AND GIGAHERTZ
WAVE RANGES

11:00 – 11:30**Coffee break**

11:30 – 12:00 **Przemysław Kula,**
Institute of Chemistry,
Military University of
Technology, Warsaw,
Poland

SYNTHESIS AND PROPERTIES OF
HIGHLY TILTED
ANTIFERROELECTRIC LCS

12:00 – 12:30 **E-Joon Choi,**
Kumoh National
Institute of Technology,
Korea

MAIN CHAIN POLYMERS WITH
BANANA-SHAPED MESOGEN AND
THEIR MODEL COMPOUNDS

13:00 – 14:30

14:30 – 15:00

**Anatoliy
Glushchenko,**

University of Colorado,
Colorado Springs, CO,
USA

15:00 – 15:30

Victor Sorokin,

Institute of
Semiconductor Physics,
National Academy of
Sciences, Kyiv, Ukraine

15:30 – 16:00

Lunch

STRESSED LIQUID CRYSTALS AND
THEIR APPLICATION

CHOLESTERIC LIQUID CRYSTAL
DISPLAYS: ELECTROOPTICS,
TECHNOLOGY, DRIVING SCHEMES

WORKSHOP Closing

12:30 – 13:00 **Yuri Nastishin,**
Institute of Physical
Optics, Lviv Ukraine
LYOTROPIC SURFACTANT
NEMATICS: ALIGNMENT, OPTICAL
CHARACTERIZATION AND
APPLICATIONS

13:00 – 14:30

Lunch

14:30 – 15:00 **Myong-Hoon Lee,**
Chonbuk National
University, Korea
CHARACTERIZATIONS OF PHOTO-
ALIGNABLE MULTI-FUNCTIONING
POLYIMIDE MATERIAL

15:00 – 15:30 **KiRyong Ha,**
Keimyung University,
Korea
SPECTROSCOPIC STUDIES ON THE
LIQUID CRYSTAL ALIGNMENT
MECHANISMS

15:30 – 16:00

19:00

Banquet

27 June 2007 Biological and Industrial Applications

9:00 – 9:30 **John L. West,**
Liquid Crystal Institute,
Kent State University,
Kent, OH, USA
"KENT APPROACH" TO FLEXIBLE
DISPLAYS

9:30 – 10:00 **Stanislaw Klosowicz,**
Military University of
Technology, Warsaw,
Poland
TRENDS IN PDLC DEVELOPMENT

10:00 – 10:30 **Giancarlo Abbate,**
Università di Napoli
Federico II, Napoli, Italy
SINGLE BEAM PATTERNING OF 1-
D, 2-D, AND 3-D LIQUID CRYSTAL
AND POLYMER COMPOSITES FOR
PHOTONIC APPLICATIONS

10:30 – 11:00 **Soon-Bum Kwon,**
Hoseo University, Korea
FULL COLOR ONE PANEL
CHOLESTERIC DISPLAYS WITHOUT
COLOR FILTER

11:00 – 11:30

Coffee break

11:30 – 12:00 **Jae-Hoon Kim,**
Hanyang University,
Korea
CONTROL OF LIQUID CRYSTAL
ALIGNMENT BY SOFT-
LITHOGRAPHY

12:00 – 12:30 **Gi-Dong Lee,**
Dong-A University,
Korea
DISCUSSION ON HOW TO
CONTROL THE POSITION OF THE
GENERATED DEFECT ON THE SLIT
OF THE PVA LC CELL

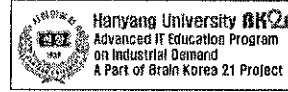
12:30 – 13:00 **Oleg Yaroshchuk,**
Institute of Physics,
National Academy of
Sciences, Kyiv, Ukraine
ION BEAM EQUIPMENT AND
PROCESSES FOR LIQUID CRYSTAL
ALIGNMENT ON THE LARGE-AREA
SUBSTRATES



*Korea Science and
Engineering Foundation*



*U.S. Army International
Technology Center-
Atlantic, Research Division*



*Hanyang University,
Korea*



*The Society for
Information Display*



*Office of Naval Research
Global*



*The Optical Society of
America*



*National Academy of
Sciences of Ukraine*



*Institute of Physics
NAS of Ukraine*



Liquid Crystals Net