



Liquid Crystals in Optics & Photonics

Second Call for Papers

in conjunction with

Fall 2005 Meeting of the Great Lakes SPIE Regional Chapter
October 27-28, 2005, Kent State University (KSU), Kent, OHIO

Chairs: Phil Bos, Ivan Smalyukh, Deng-Ke Yang

The workshop will take the form of a summit, bringing together prominent scientists as well as students and postdoctoral fellows. The workshop will be in conjunction with the Fall 2005 Meeting of the Great Lakes SPIE Regional Chapter (evening of October 27), Exhibition (October 27) and Outreach Day (October 26). Student participation is highly encouraged; a special program for students is planned and awards for best student presentations in both oral and poster categories will be awarded. Papers presented at this workshop will not need to be original, but must advance optics, photonics, and liquid crystal research. One of the goals is the discussion of the methods behind the original research that does not have a forum at the international conferences. Presentation type will be determined by the program committee as an oral presentation, or as a poster, based on the quality and type of information supplied in the abstract. The one-page abstracts should be uploaded via the conference web site at <http://lcoptics.lci.kent.edu/>. Since the available space is limited, workshop attendees who do not intend to present should preregister as soon as possible at the same web site in order to assure their participation. The Conference Fee is \$10 and can be paid upon arrival; on-site registration will be open at 8:00 AM, October 27.

Advisory Board: James Grote (Air Force Research Laboratory - AFRL), J. William Doane (Kent Displays Inc.), Satyendra Kumar (KSU), Oleg Lavrentovich (KSU), Peter Palffy-Muhoray (KSU), Paul McManamon (AFRL), John West (KSU)

Program Committee: James Anderson (Hana Microdisplays), Timothy Bunning (AFRL), Chen Cheng (KSU), Stephen Cheng (University of Akron), L.-C. Chien (KSU), Mingxia Gu (KSU), Mark Gruneisen (AFRL), Antal Jakli (KSU), lam-Choon Khoo, (Pennsylvania State University), Thien Kyu (University of Akron), Patrick Mather (Case Western Reserve University - CWRU), Charles Rosenblatt (CWRU), Bahman Taheri (AlphaMicron Inc.), Rolfe Petschek (CWRU), Ken Singer (CWRU), Edward Watson (AFRL)



Plenary and invited speakers:

- T. J Bunning**, US Air Force Research Laboratory, WPAFB, OH
Novel dynamic photonic filters
- S. Z. D. Cheng**, University of Akron, Akron, OH
High Refractive Index Polythiophene for 3-D Photonic Crystals with Complete Band Gaps
- M. T. Gruneisen**, US Air Force Research Laboratory, Kirtland AFB, NM
Diffraction Wavefront Control with Spatial Light Modulators: Components, Applications, Analysis and Demonstrations
- T. Nose**, Akita Prefectural University, Japan
Liquid Crystal Diffraction Optical Devices Obtained with Microrubbing
- P. Poulin**, Centre de Recherche Paul Pascal, France
Liquid crystal - colloid composites
- P. N. Prasad**, State University of New York at Buffalo, Buffalo, NY
Third-Harmonic Generation in Photonic Crystals
- K. D. Singer**, Case Western Reserve University, Cleveland, OH
Surface-Mediated Nonlinear Optical Effects in Nematic Liquid Crystals
- T. Voigt**, ChemImage Corp., Pittsburgh, PA
Opportunities with Molecular Chemical Imaging
- S. T. Wu**, University of Central Florida, Orlando, FL
Polarization-independent tunable-focus lens

Abstract Deadline: October 14, 2005

Publication of Program: October 18, 2005

For abstracts and details see web sites:

<http://lcoptics.lci.kent.edu/>

and <http://dept.kent.edu/spie/glsrch/>