

Workshop on Light-Controlled Liquid Crystalline Complex Adaptive Materials - LC2CAM

Conference Chairs: Noel A. Clark & Ivan I. Smalyukh, Univ. of Colorado, Boulder

Pre-Workshop tutorials - August 6, 2008

Workshop - August 7-10, 2008

The Boulder LC2CAM International Workshop will enable researchers working at the forefronts of materials science & optics to discuss the emerging uses of light for control of ordered soft materials and advances in the use of liquid crystals to control light.

Workshop topics include:

- Laser trapping and manipulation in liquid crystals
- Tunable and frequency-selective negative-index media
- Light-induced phase transitions
- Nonlinear optics of liquid crystals
- Light-controlled surface anchoring phenomena
- Confocal, multiphoton fluorescence, and CARS microscopy of liquid crystals
- Holographic polymer dispersed liquid crystals
- Light-controlled liquid crystalline polymers and elastomers
- Optics of colloidal and nanostructured systems
- Sensors and wavefront control devices

The Boulder LC2CAM Workshop will bring together both prominent & junior scientists. Participation of students & postdoctoral fellows is strongly encouraged, and up to 20 fellowships will be awarded to support travel of early-career scientists. The presentations will be webcasted in real time and, in addition to the on-site audience, registered participants around the World will have an opportunity to ask questions. For abstract submission, fellowship application, & Workshop registration, visit the web site: <http://lcmrc.colorado.edu/news/workshops.html>

Confirmed Invited Speakers:

Dick J. Broer, Eindhoven Univ. of Technology, The Netherlands; Marcus Cicerone, NIST; Gregory Crawford, Brown Univ., Kishan Dholakia, Univ. of St. Andrews, UK; Eric Dufresne, Yale Univ.; Istvan Janossy, Inst. for Solid State Physics and Optics, Hungary; Sajeew John, Univ. of Toronto, Canada; Igor Musevic, J. Stefan Institute, Slovenia; Oleg Lavrentovich, Kent State Univ.; Sin-Doo Lee, Seoul National Univ., Korea; Thomas Mason, UCLA; Robert McLeod, CU-Boulder; Yuen-Ron Shen, UC-Berkeley; Slobodan Zumer, Univ. of Ljubljana, Slovenia

Important Dates:

- Fellowship application deadline June 5, 2008
- Abstract deadline July 15, 2008
- Publication of program August 1, 2008

Workshop Features & Events:

- Invited & Contributed Talks; • Poster Session; • Exhibition; • Pre-Workshop Tutorials;
- Real-Time Webcasting of Presentations; • Career Development Program; • International Outreach Forum; • Student Best Paper Prizes to be Awarded; • No Conference Fee; • Tour to Rocky Mountain National Park; • Receptions; • Travel Support for Minority Students & Faculty at Minority Serving Institutions; • All Events are Free & Open to the Public.

Workshop Sponsors:

