

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
- Liquid crystals for solar cells and light harvesting
- 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. The presentations will be webcast 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, registration, & to learn more about the conference, visit web sites:

<http://i2cam.org/conference/lc2cam08/> <http://lcmrc.colorado.edu/news/workshops.html>

Confirmed Invited Speakers:

Dick J. Broer, Eindhoven Univ. of Technology, The Netherlands; **Marcus Cicerone**, NIST; **Scott Davis**, Vescent Photonics; **Kishan Dholakia**, Univ. St. Andrews, UK; **Eric Dufresne**, Yale Univ.; **Sajeev John**, Univ. of Toronto, Canada; **Istvan Janossy**, Inst. for Solid State Physics & Optics, Hungary; **Stephen Jacobs**, Univ. of Rochester; **Igor Musevic**, J. Stefan Inst., Slovenia; **Oleg Lavrentovich**, Kent State Univ.; **Sin-Doo Lee**, Seoul National Univ., Korea; **Thomas Mason**, UCLA; **Robert McLeod**, CU-Boulder; **Yuen-Ron Shen**, Univ. of California at Berkeley; **Slobodan Zumer**, Univ. of Ljubljana, Slovenia.

Important Dates/deadlines:

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| → Abstract deadline | July 15, 2008 |
| → Sign up for the tour to Rocky Mountain Natl. Park | July 20, 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:

