

Call for Papers

“Polymers and Liquid Crystals” Fall 2007 ACS POLY Symposium Boston, MA August 19 - 23, 2007

Abstract and Preprint Deadline: April 4, 2007

The focus of this symposium is to showcase new research and application directions in the area of liquid crystal (LC)-containing and LC-based polymer systems. LCs provide the ability to readily control order and anisotropy in polymer materials, and thereby amplify or modify specific properties. In addition, LC components offer control of polymer architecture on the nanometer scale to generate organic nanomaterials with enhanced chemical and/or physical properties. This symposium will provide an interdisciplinary forum for the presentation and discussion of new and previously unpublished results on how polymer materials in combination with LCs can produce anisotropic and/or nanostructured polymer materials with new, relevant, and interesting properties. The goal of the symposium is to highlight new research directions in LC-containing and LC-based polymer systems. These include new types of materials using new LC phases and polymer architectures; integration of new functional properties into LC polymer materials; and new areas of application such as functional coatings, membranes, catalysts, tissue engineering scaffolds, and micro-actuators.

Confirmed invited speakers:

Prof. Dr. Markus Antonietti, Max Plank Inst. of Colloids and Surfaces, Germany
Prof. Chris Bielawski, Dept. of Chemistry, University of Texas at Austin
Prof. Dirk Broer, Eindhoven University of Technology, and Philips, The Netherlands
Dr. Tim Bunning, Air Force Research Laboratories, Wright Patterson Air Force Base
Prof. Eric Cochran, Dept. of Chemical & Biological Engineering, Iowa State Univ.
Prof. Takashi Kato, Dept. of Mater. Sci. Eng., University of Tokyo, Japan
Prof. Myongsoo Lee, Dept. of Chemistry, Yonsei University, South Korea
Prof. Pat Mather, Dept. of Macromolecular Sci., Case Western Reserve University
Prof. Jeff Pyun, Dept. of Chemistry, University of Arizona
Prof. Rachael Sagelman, Dept. of Chemical Engineering, U.C. Berkeley
Prof. Daniel Savin, Dept. of Chemistry, University of Vermont
Prof. Sam Stupp, Dept. of Materials Science, Northwestern University
Prof. Tim Swager, Dept. of Chemistry, MIT

Organizers:

Douglas L. Gin, Department of Chemistry & Biochemistry and Department of Chemical and Biological Engineering, University of Colorado, Boulder, CO 80309, 303-492-7640, gin@spot.colorado.edu.

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