

**Workshop on Large Fluctuations and Collective  
Phenomena in Disordered Materials  
May 16-19, 2011**

**Institute for Condensed Matter Theory  
University of Illinois at Urbana-Champaign**



**A diverse group of prominent experimentalists, computational physicists, and theoreticians working at the interface between Physics, Mechanics, and Materials Science, will focus on phenomena involving intermittent material response, avalanches, and large fluctuations.**

- **Barkhausen noise in magnetic materials**
- **fracture and plasticity in crystalline or non-crystalline materials**
- **martensitic transformations**
- **structural relaxation near the glass or the jamming transition**
- **granular materials**
- **foams**
- **fluctuations in high  $T_c$  superconductors**
- **and other materials**

A poster session will be scheduled.

Students may apply for travel assistance.

**Registration deadline: May 1.**

**Incomplete list of speakers**

- **Bob Behringer (Duke)**
- **David Campbell (Boston U)**
- **Erica Carlson (Purdue)**
- **Lance Cooper (Illinois)**
- **Karin Dahmen (Illinois)**
- **Karen Daniels (North Carolina State)**
- **Dennis Dimiduk (Air Force)**
- **Doug Durian (U Pennsylvania)**
- **Gianfranco Durin (Torino, Italy)**
- **Michael Falk (Johns Hopkins)**
- **Eduardo Fradkin (Illinois)**
- **Paul Goldbart (Georgia Tech)**
- **Laura Greene (Illinois)**
- **Julia Greer (Caltech)**
- **Alfred Hübler (Illinois)**
- **David Lockner (USGS)**
- **Craig Maloney (Carnegie Mellon)**
- **Corey O'Hern (Yale)**
- **Stefanos Papanikolaou (Cornell)**
- **Mark Robbins (Johns Hopkins)**
- **Eduard Vives (Barcelona, Spain)**
- **Mike Weissman (Illinois)**



Sponsors: Institute for Condensed Matter Theory & Materials Computation Center,  
University of Illinois at Urbana-Champaign [www.icmt.illinois.edu/workshops/Fluctuations2011](http://www.icmt.illinois.edu/workshops/Fluctuations2011)