

CNLS

**Center for Nonlinear
Studies at Los Alamos
National Laboratory**

**24th ANNUAL
INTERNATIONAL
CONFERENCE**

Invited Speakers:

Paul Barbara (Austin)
 David Bensimon (Paris)
 Daniel Bonn (Paris)
 Robijn Bruinsma (UCLA)
 Carlos Bustamante (Berkeley)
 Ben Chu (Stony Brook)
 Ken Dill (San Francisco)
 Bertrand Duplantier (Saclay)
 William A. Eaton (NIH)
 Evan Evans (Boston)
 Steve Granick (Illinois)
 Gary Grest (Sandia)
 Alex Groisman (San Diego)
 Alexander Grosberg (Minnesota)
 Terence Hwa (San Diego)
 Mehran Kardar (MIT)
 Jacob Klein (Oxford/Weizmann)
 Ronald Larson (Michigan)
 Vladimir Lebedev (Landau)
 Amit Meller (Harvard)
 David Morse (Minnesota)
 Murugappan Muthukumar (UMass)
 David Nelson (Harvard)
 David Norris (Minnesota)
 Joseph Perry (Georgia Tech)
 Michel Peyrard (Lyon)
 Rob Phillips (Caltech)
 Stephen Quake (Caltech)
 Yitzhak Rabin (Bar-Ilan)
 Mark Reed (Yale)
 Klaus J. Schulten (Illinois)
 Tamar Seideman (Northwestern)
 Eugene Shakhnovich (Harvard)
 Eric Shaqfeh (Stanford)
 Boris Shklovskii (Minnesota)
 Victor Steinberg (Weizmann)
 Radhakrishna Sureshkumar
 (Washington)
 Andrei Tokmakoff (MIT)
 Tom Witten (Chicago)
 Sunney Xie (Harvard)



Statistical Physics of Macromolecules

from Electronic Structure to Fluid Dynamics

**May 17–21, 2004,
La Fonda Hotel,
Santa Fe, New Mexico, USA**

This year's conference will bring together a diverse group of researchers to discuss the general physical, chemical and computational concepts and techniques evolving to gain insight into macromolecules and to elucidate their role in diverse physical phenomena.

Specific emphasis will be on the statistical characterization of macromolecular structure, dynamics and applications which bridges multiple length-scales. In particular, this conference will address microscopic features such as molecular structure, electronic and optical properties, dynamics and conformation statistics of macromolecules, along with meso and macroscopic applications (e.g. fluid mechanics of polymer solutions and melts) and theoretical and experimental tools for characterization (e.g., spectroscopy, neutron scattering) of these diverse multi-scale phenomena.

Important deadlines:

Posters, Contributed talks, Registration – **May 3, 2004**
 Hotel Reservation – **April 16, 2004**

Organizing Committee

Eli Ben-Naim, Misha Chertkov,
 and Sergei Tretiak

Advisory Board

Angel García (LANL), Alexander Grosberg (Minnesota),
 Hans Frauenfelder (LANL), Alan Hurd (LANL),
 Murugappan Muthukumar (Umass),
 and Andrew Shreve (LANL)

Administrative coordinator

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