



December 1-5 • Boston, MA

CALL FOR PAPERS

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MRS Symposium P: Dynamics in Small Confining Systems VII

Interfacial science has rapidly expanded beyond the original realm of chemistry to include physics, mechanical and chemical engineering, biology, materials science, and other specialized subfields. This seventh international symposium in a series sponsored by the MRS will emphasize a wide range of topics covering static and dynamic properties of small confining systems. Participants from various disciplines will share different points of view on the questions of how ultras-small geometries can force a system to behave in ways significantly different than its behavior in the bulk, how this difference affects molecular properties, and how it is probed. We encourage researchers from all scientific disciplines to present theoretical, experimental, and computational evidence of the effects of confinement on gaseous, liquid, and solid systems.

Both oral and poster presentations will be accepted relating to the following topical areas:

- Confined and **anomalous dynamics** in porous, supramolecular, and biological systems
- New methods to probe **dynamics in confinement** (scattering, NMR, optical probes, and direct imaging techniques)
- **Diffusion** and **reactions** in confinement
- **Adsorption** and phase transitions of simple and complex fluids at interfaces
- **Liquids** at interfaces
- **Microfluidics** and hydrodynamics near solid surfaces
- **Friction** and structural properties of **fluids under shear**
- **Dynamic** force spectroscopy
- Numerical modeling and **computational techniques** of confined systems
- **Synthesis** and **design** of new confined geometries and **supramolecular** systems

Invited speakers (tentative) include: **A. Ajdari** (ESPCI-Paris, France), **Y. Braiman** (Oak Ridge National Lab), **F. Bright** (SUNY-Buffalo), **E. Evans** (Univ. of British Columbia and Boston Univ.), **F. Family** (Emory Univ.), **K Gubbins** (N. Carolina State Univ.-Raleigh), **J. Israelachvili** (Univ. of California-Santa Barbara), **R. Kimmich** (Univ. Ulm, Germany), **J. Klafter** (Tel Aviv Univ., Israel), **J. Klein** (Oxford Univ., United Kingdom, and Weizmann Inst., Israel), **J.P. Korb** (CNRS-Palaiseau, France), **L. Leger** (College de France), **N.E. Levinger** (Colorado Univ.), **J. Livage** (College de France), **A. Meller** (Rowland Inst., Harvard Univ.), **R. Metzler** (Nordita, Denmark), **E. Meyer** (Univ. Basel, Switzerland), **U. Mohanty** (Boston College), **M.H. Muser** (Univ. Western Ontario, Canada), **A.V. Neimark** (TRI-Princeton), **G. Oshanin** (Univ. Paris, France), **R. Overney** (Washington Univ.), **J. Prost** (ESPCI-Paris, France), **R. Richert** (Arizona State Univ.), **M.O. Robbins** (Johns Hopkins Univ.), **C. Alba Simionescu** (Univ. Paris-Sud, France), **G. Scherer** (Princeton Univ.), **Ch. Schmuttenmaer** (Yale Univ.), **K. Tominaga** (Kobe Univ.), **S. Xie** (Harvard Univ.), and **J.M. Zanotti** (Argonne National Lab).

Symposium Organizers

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ABSTRACT DEADLINES:

June 5:
for abstracts sent
via fax or mail

June 19:
for abstracts sent
via the MRS Web site

For additional meeting information, visit
the MRS Web site at

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The 2003 MRS Fall Meeting will serve as a key forum for discussion of interdisciplinary leading-edge materials research from around the world. Various meeting formats—oral, poster, round-table, forum and workshop sessions—are offered to maximize participation.