

International Conference on

Dynamics of Disordered Materials on the Nanometer Scale

February 23-27, 2004

Daewoo Hotel, Hanoi, Vietnam

Sponsored by Engineering Conferences International

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- *Invited keynote speakers*
- *Featured talks*
- *Poster sessions*

This international conference will promote the confluence of ideas and expertise from diverse experimental and theoretical approaches in order to accelerate research on the dynamics of disordered materials on the nanometer scale. The meeting will bring together experimentalists and theorists from the physical and biological sciences and engineering with expertise in synthesis and characterization of materials as well as in their theoretical modeling and computer simulations. . Diverse aspects of the dynamics of disordered systems will be covered including systems both in and out of thermodynamic equilibrium. While theoretical concepts have been developed continuously over the past 50 years, the last decade has witnessed heightened activity in experimental and computational work in disordered materials. For many of the phenomena involved, the length scales of interest are in the nanometer range.

Conference Chairs

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X. Hoang Trinh, Institute of Physics, NCST, Hanoi

Partial list of keynote and invited speakers and topics

Pierre-Gilles de Gennes, Institut Curie, Paris, France:

The dynamics of cellular adhesion

Douglas McFarlane, Monash University, Melbourne, Australia:

Transport in polymer electrolytes

Michel Armand, University of Montreal, Canada:

Nanocomposite polymer electrolytes

Michael Klein, University of Pennsylvania, Philadelphia, PA, USA:

Dynamics of lipid bilayers

Klaus Schelten, University of Illinois, Urbana, IL:

*Modeling of the bacterial membrane**

Sow-Hsin Chen, MIT, Cambridge, MA, USA:

Dynamics of interfacial water in mesoporous silica matrices

Henry Glyde, University of Delaware, DE, USA:

Dynamics of confined quantum fluids

Leo Kadanoff, University of Chicago, IL, USA:

Dynamics of granular matter

Marie-Louise Saboungi, CRMD, Orléans, France:

Dynamics of confined semiconductors

Shigehito Deki, Kobe University, Japan:

Nanostructured photonic materials

Marco Fontana, University of Parma, Italy:

Nanoglasses

Kia Ngai, Naval Research Lab., Washington, DC, USA:

Glass transition dynamics and viscoelastic properties of polymer thin films and polymers confined in nanopores

Mo Li, Georgia Institute of Technology, Atlanta, GA, USA:

Temporal and spatial inhomogeneity in metallic glass-forming systems

Elisabeth Bouchaud, CEA, Saclay, France:

Nanoscale damage and crack propagation in glassy materials

Kenji Suzuki, Advanced Institute of Materials Science, Japan:

Crystal-to-amorphous solid state structure transitions in metallic alloys

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Information regarding registration, lodging & abstract submission will be provided shortly in the next announcement.

To be placed on the mailing list, see <http://www.engconfintl.org/4ah.html>

cover photo: Halong Bay - a point of interest included in conference excursion

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