



Center for Scientific Computation
And Mathematical Modeling
University of Maryland, College Park



School of Mathematical Sciences
Peking University

A Program Announcement

"Multiscale Modeling and Simulation of Complex Fluids "

A Joint CSCAMM and School of Mathematical Sciences, Peking University Program

April 13-20, 2007

Organizing Committee:

Antony Beris, Weinan E, Eitan Tadmor, Athanasios Tzavaras, Pingwen Zhang

SCIENTIFIC BACKGROUND

In recent years, multiscale modeling of complex fluids has attracted a great deal of attention from several disciplines, including chemical physics, chemical engineering and applied mathematics. Typical examples involve polymer solutions and melts, colloidal systems, surfactant solutions, particulate systems, suspensions (aggregate systems, liquid crystals) etc.

The goal of this workshop is to bring together people from these different disciplines, to discuss mathematical modeling and computational approaches which play a central role, allowing a systematic investigation of the phenomena taking place at different length and time scales associated with the dynamics of complex fluids.

Tutorials (April 13-14)

Lectures will be delivered by:

Antony Beris – University of Delaware
John F. Brady – Caltech
Glenn Fredrickson – UC, Santa Barbara

Workshop (April 16-20)

Additional information is posted at:
<http://www.cscamm.umd.edu/programs/cxf07>
Email: cxf07@cscamm.umd.edu

A limited number of opening are available.
To apply please RSVP at:
www.cscamm.umd.edu/programs/cxf07/rsvp.htm

INVITED PARTICIPANTS

Antony Beris - *University of Delaware*
John F. Brady - *Caltech*
Peter Constantin - *University of Chicago*
Weinan E - *Princeton University*
Ibrahim Fatkullin - *The University of Arizona*
Glenn Fredrickson - *UC, Santa Barbara*
Venkat Ganesan - *The University of Texas at Austin*
Yannis Kevrekidis - *Princeton University*
Kurt Kremer - *Max Planck Inst. for Polymer Research*
Claude Le Bris - *CERMICS – ENPC*
Tiejun Li - *Peking University*
Chun Liu - *Penn State University*
Hailiang Liu - *Iowa State University*
Vlasis Mavrantzas - *University of Patras*
Weiqing Ren - *New York University*
Michael Renardy - *Virginia Tech*
Alejandro Rey - *McGill University*
Jan Sengers - *University of Maryland*
An-Chang Shi - *McMaster University*
Athanasios Tzavaras - *University of Maryland*
Qi Wang - *Florida State University*
Hui Zhang – *Beijing Normal University*
Pingwen Zhang - *Peking University*

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