



## Workshop Announcement

# 2012 Young Researchers Workshop Kinetic Description of Multiscale Phenomena October 3-7, 2012

Van Vleck Hall, Department of Mathematics  
University of Wisconsin-Madison

### Organizers

Irene Gamba University of Texas at Austin  
Shi Jin University of Wisconsin-Madison  
Eitan Tadmor University of Maryland

### Confirmed Participants

Ricardo Alonso	Rice University
Claude Bardos	ENS-Cachan
Victor Batista	Yale University
Yingda Cheng	Michigan State University
Laurent Desvillettes	ENS-Cachan
Irene Gamba	University of Texas at Austin
Mike Graham	University of Wisconsin-Madison
Jeff Haack	University of Texas at Austin
Jingwei Hu	University of Texas at Austin
Shi Jin	University of Wisconsin-Madison
Sébastien Motsch	University of Maryland
Vladislav Panferov	California State University, Northridge
Thomas Rey	Université Claude Bernard Lyon 1
Christian Ringhofer	Arizona State University
Eitan Tadmor	University of Maryland
Changhui Tan	University of Maryland
Bokai Yan	University of California, Los Angeles
Xu Yang	New York University

**A limited number of openings are available.**  
**A limited amount of travel and local lodging is available**  
**for researchers in the early stages of their career who**  
**want to attend the full program, especially for graduate**  
**students and post-doctoral fellows.** To apply, complete the  
online application before **August 15, 2012.**

For more information and to apply:  
[www.ki-net.umd.edu](http://www.ki-net.umd.edu)

### Scientific Background

Kinetic descriptions play a critical role in the physical, social, and biological sciences, and have expanded into diverse applications of cutting-edge technology ranging from materials, chemistry, biology to social sciences. Modern kinetic theory captures fundamental issues in the modeling and simulation of phenomena across length and time scales, from the atomistic to the continuum.

This workshop is targeting primarily researchers at an early stage of their career, in order to discuss recent development in the modeling and simulation of multiscale phenomena via kinetic methods. It is also aimed to promote more collaborations between young researchers with common interests in relevant fields.

The topics to be discussed include quantum dynamics with applications to chemistry; network dynamics with applications to social sciences; and kinetic models of biological processes.

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