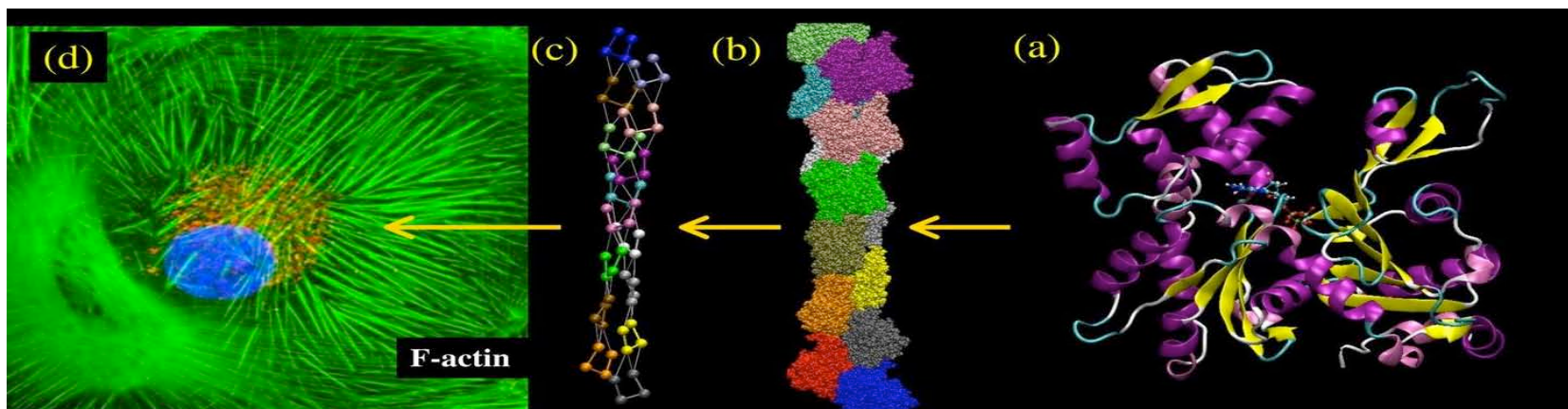


WORKSHOP ON MULTISCALE THEORY AND SIMULATION



Multiscale theory and simulation has become an important tool for chemists and biophysicists. In this hands-on workshop, meant for advanced graduate students and postdoctoral scholars, key multiscale theoretical and the computational concepts will be presented.

The goal of the workshop is to train a select group of students and postdocs in multiscale methods that can be used to study biomolecular systems, ranging from the atomic to the mesoscopic scales. The workshop will cover both coarse-graining techniques and rare event sampling, as well as their applications. The relevant physical concepts, mathematical techniques, and computational algorithms used in multiscale simulations will be introduced. Hands-on computer exercises will also be a part of the workshop.

General Questions:

NSF-CCI-workshop@uchicago.edu

(773) 702-6805

Dates: June 11-13, 2012

Center for Multiscale Theory and Simulation
University of Chicago
5735 S. Ellis Ave
Chicago, IL 60637

Workshop Instructors:

Gregory A. Voth, Haig P. Papazian Distinguished Service Professor

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Aaron Dinner, Associate Professor

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Department of Biochemistry and Molecular Biology,
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Nina Hinrichs, Assistant Professor

Department of Computer Science, University of Chicago

Jonathan Weare, Assistant Professor

Department of Mathematics and the College,
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Lecture sessions will be conducted in the morning followed by hands-on computer lab sessions in which students will be able to set up and run simulations. Enrollment is limited to 15 participants. All participants are required to bring their own laptop for use in workshop tutorial sessions. Housing will be provided for participants, and all course materials will be provided. There is no registration fee. Partial funding is available for participant travel.

The workshop will be held at The Searle Chemistry Laboratory building, University of Chicago, Hyde park campus. It is sponsored by the NSF-funded Center for Multiscale Theory and Simulation (CMTS), which is focused on developing a novel, systematic, and transformative computational capability for the scientific community. The NSF CMTS project combines conceptual advances in statistical mechanics and condensed phase dynamics with computer simulation methodology.

Significant Dates

Application deadline for full consideration:

Selection and notification of participants by:

Confirmation of attendance by participants due by:

Housing check-in date:

Housing check- out date:

Date (in 2012)

March 1

On-going through April

April 15

June 10

June 13