EMERSON CENTER LECTURESHIP AWARD SYMPOSIUM

Computational and Mathematical Modeling in Large Systems: From Proteins to Cells

Cherry L. Emerson Center for Scientific Computation, Emory University



Dr. Cherry L. Emerson

Monday, April 3, 2006 Location: Room 207 White Hall, Emory University

AWARD WINNER & KEYNOTE SPEAKER:



Martin Karplus

Professor Emeritus, Department of Chemistry & Chemical Biology, Harvard University & Laboratoire de Chimie Biophysique, ISIS Université Louis Pasteur, 67000 Strasbourg France

Living cells are a collection of molecular machines, which carry out many of the functions essential for the cells' existence, differentiation and reproduction. Most, though not all, of these machines are made up of proteins. Because of their complexity, an understanding of how they work requires a synergistic combination of experimental and theoretical studies. The use of simulations to analyze some fundamental physical characteristics of proteins will be described. Applications to understand how proteins function will then be presented with specific focus on the molecular motors $Groellande F_1$ -ATPase.

INVITED SPEAKERS:

| SCHEDULE OF EVENTS:





Ying Xu
Dept. of Biochem. & Mol. Biology
University of Georgia, Athens

REGISTRATION AND CONTACT INFORMATION:

Email: clec@euch4e.chem.emory.edu
http://www.emerson.emory.edu/conferences/index.html
Abstracts of invited talks are available at the website.
Registration is free, but you must register to attend.



The Emerson Center Lectureship Award was established in the fall of 2003 to recognize distinguished achievements by scientists in computational sciences and to facilitate collaboration among different disciplines of computational sciences. On the board of the Emerson Center Lectureship Award Selection Committee are Professors Kurt Warncke (Physics, chair), Rustom Antia (Biology), Michele Benzi (Math & Computer Science), Justin Gallivan (Chemistry), Keiji Morokuma (Emerson Center), and Keith Wilkinson (Biochemistry) of Emory University. Dr. Jamal Musaev (Emerson Center) is the Lectureship Coordinator.