

## **CALL FOR PAPERS**

### *Symposium on* ***Molecular Dynamics Simulations: Methods and Applications***

The 6th ASME International Conference on  
Multibody Systems, Nonlinear Dynamics and Control  
September 4-7, 2007  
Las Vegas, NV, USA

The Technical Program Committee is sponsoring a symposium on *Molecular Dynamics Simulations: Methods and Applications* at the **6th ASME International Conference on Multibody Systems, Nonlinear Dynamics and Control**, as part of the ASME International Design Engineering Technical Conferences (IDETC 2007) in Las Vegas, NV.

The goal of this symposium is to present an overview of applications of molecular dynamics simulations in biomolecular and materials modeling as well as recent methodological developments. These methods may include, but may not be limited to, multi-scale modeling, normal mode analysis, reduced order modeling using rigid or flexible body representations, articulated multibody methods and low order algorithms applied to molecular dynamics simulations, efficient force calculation methods, efficient methods for calculating functional and structural properties, applications of these methods or traditional molecular dynamics to novel biomolecular and materials modeling, reviews of notable works in molecular dynamics, discussions on modeling challenges, software development for molecular dynamics simulations etc. Papers are invited in these and other related topics.

Electronic (pdf) copies of papers with the e-mail address of the authors must be submitted to the symposium through the IDETC 2007 website at <http://www.asmeconferences.org/IDETC07/Login.cfm> before **February 19, 2007**. Accepted manuscripts will be published in the conference proceedings on CD-ROM.

For further information please contact:

**Dr. Paul Crozier**  
Multiscale Comp. Materials Methods  
Sandia National Laboratories  
P.O. Box 5800, MS 1322  
Albuquerque, NM 87185  
Tel: (505) 845-9714  
E-mail: [pscrozi@sandia.gov](mailto:pscrozi@sandia.gov)

**Rudranarayan Mukherjee**  
Department of M.A.N.E  
Rensselaer Polytechnic Institute  
110 8<sup>th</sup> Street  
Troy NY 12180  
Tel: (518) 441-7745  
E-mail: [mukher@rpi.edu](mailto:mukher@rpi.edu)

**Prof. Kurt Anderson**  
Department of M.A.N.E  
Rensselaer Polytechnic Institute  
110 8<sup>th</sup> Street  
Troy NY 12180  
Tel: (518) 276-2339  
E-mail: [anderk5@rpi.edu](mailto:anderk5@rpi.edu)