## Agenda

## Agenda for the 2009 NIST Workshop on Atomistic Simulations for Industrial Needs Building 223 Room B307 (MSEL Conference Room)

## Apr 27, 2009

08:30 AM	Clear Security and the front gate		
09:30 AM	Siegel	Combining computations and experiments to probe interfacial chemistry at	
10:00 AM	Heinz	the nanoscale Simulation of FCC Metals and Metal-Biological Interfaces for Nanoelectron- ic and Sensor Applications	
10:30 AM	Break/Discussion		
11:00 AM 11:30 AM	Shankar Liang	The Computational Nanomaterial Applications and Needs Automation in refining nonbond parameters in forcefield development	
12:00 PM	Lunch (NIST Cafeteria)		
01:30 PM 02:00 PM	Schweiger Goddard	Materials Modeling using the MedeA software platform: an update Advances in force fields for catalysis, pharma, polymers, and complex sys- tems and industrial applications	
02:30 PM	Kramer	Experimental Validation of Atomistic Simulations: Case Studies from Amorphous and Liquid Metals	
03:15 PM	Break		
03:45 PM 04:15 PM 04:45 PM 05:00 PM 05:30 PM	Sheng Chaka Becker Discussion Daily Wrap-ut	Atomistic Modeling of the Structure of Ternary Metallic Glasses The Prediction Challenge The NIST Interatomic Potentials Repository	
06:30 PM	Dinner at The Flaming Pit 18701 N. Frederick Road Gaithersburg, MD 20879 (301) 977-0700		
Apr 28, 2009			
08:30 AM 09:00 AM 09:30 AM	Mishin Baskes Ackland	Atomistic Simulations of the Martensitic Transformation in B2-NiAl A Modified Embedded Atom Method Potential for Fe Metallic/Covalent/Ionic Interatomic potentials for Ferritic Steels.	
10:00 AM	Break/Discussion		
10:15 AM 10:30 AM 11:00 AM	Kattner Foiles Qi	Calphad modeling of homogeneity ranges Connecting MD info to higher length scale models of grain growth Modeling, Measuring and Scale Bridging of the Mechanical Properties at Al/Si Interface	
11:30 AM 12:00 PM	Discussion/Closing Lunch (NIST Cafeteria)		

## Participants

<u>Last</u>	<u>First</u>	Affiliation
Ackland	Graeme	University of Edinburgh, UK
Apostol	Florin	George Mason University
Baskes	Mike	Los Alamos National Laboratory
Becker	Chandler	NIST Metallurgy Division
Cahn	John	NIST Metallurgy Division, University of Washington
Chaka	Anne	NIST Physics Laboratory
Cockayne	Eric	NIST Ceramics Division
Cundari	Tom	Univ of North Texas
Elliott	Ryan	University of Minnesota
Foiles	Stephen	Sandia National Laboratory
Frolov	Timofey	George Mason University
Goddard III	William A.	California Institute of Technology
Heinz	Hendrik	University of Akron
Kattner	Ursula	NIST Metallurgy Division
Kramer	Matthew J.	Ames National Laboratory
Lee	Tongsik	Brown University
Levine	Lyle	NIST Metallurgy Division
Liang	Jian-Jie	Accelrys
Mishin	Yuri	George Mason University
Mountain	Ray	NIST Chemical Science and Technology Laboratory
Ojwang	Julius	Carnegie Institute of Washington
Pun	Ganga	George Mason University
Qi	Yue	General Motors
Schweiger	Hannes	Materials Design
Shankar	Sadasivan	Intel Corporation
Sheng	Howard	George Mason University
Siegel	Don	Ford Motor Company
Srivilliputhur	Srinivasan	University of North Texas
Tavazza	Francesca	NIST Metallurgy Division
Wagner	Richard	NIST Metallurgy Division
Wilson	Angela	University of North Texas