Schedule for the Telluride Workshop on Many-Body Interactions from Quantum Mechanics to Force Fields

Monday Morning

	7:30-8:00	Breakfast at the meeting site	
	8:00-8:10	Opening Remarks	
	8:10-8:50	Ken Jordan	"Incorporating Electron Correlation Effects in Electron-Water Interactions via Model Potentials"
	8:50-9:30	Teresa Head-Gordon	"iAMOEBA: a direct polarization model"
	9:30-9:50	Lori Burns	"Assessing the Performance of Density Functional and Wavefunction Methods for Noncovalent Interactions"
	9:50-10:10	Break	
	10:10-10:50	Alston Misquitta	"The role of Explicit Polarization on the Energy Landscape of Pyridine Clusters"
	10:50-11:30	Greg Schenter	"EXAFS Analysis of Molecular Interaction"
	11:30-11:50	Jan Steckel	"Electronic Structure Calculations of the Acetate- CO_2 Interaction: Implications for Force Field Development"
	11:50-12:10	Open Discussion	
Monday Evening			
	7:00-7:40	Susan Sinnot	"Charge Optimized Many-Body (COMB) Potentials: Development and Applications"
	7:40-8:20	Carsten Mueller	"Electron Correlation Effects in Extended Systems"
	Tuesday Morning		

Tuesday Morning

7:30-8:00 Breakfast at the meeting site

8:00-8:40	Jay Ponder	"The AMOEBA Force Field: Current Problems and Possible Solutions"
8:40-9:20	Andreas Cisneros	"Use of Gaussian Electrostatic Model Distributed Multipoles in AMOEBA"
9:20-9:40	Fangfang Wang	"DPP2 and DPP3 Water Models"
9:40-10:00	Break	
10:00-10:40	David Sherrill	"The Importance of Charge Penetration of Pi-Interactions"
10:40-11:20	Gary Kedziora	"DFT molecular dynamics: from validation to simulation"
11:20-11:40	Aude Marjolin	"Modeling of Lanthanide and Actinide Cations: From QM to MM"
11:40-12:00	Open Discussion	

Tuesday Evening

6:00 - 7:15 p.m., Town Talks at the Palm Theatre

"Learning from Nature's 3-Billion-Year Solar Energy Program," Gregory Scholes, University of Toronto

"Plastic Solar Cells: Learning how molecule think," Peter Rossky, Departments of Chemistry and Chemical Engineering, University of Texas at Austin

7:30-8:10	Carine Clavaguera	"IR Spectroscopy of Gas Phase and Micro-Hydrated Biolmolecules with New Generation Force Fields"
8:10-8:30	A. Donchev/John Klepeis	"Polarizable Force Field Development at D. E. Shaw"

Wednesday Morning

7:30-8:00	Breakfast at the meeting site	
8:00-8:40	Liem Dang	"Understanding Ion-Ion Interactions in Bulk and Aqueous Interfaces Using Molecular

Simu	lations"

	8:40-9:20	Jiali Gao	"Variational Many-body Expansion in the Framework of Block-Localization"
	9:20-9:40	Karl Diebec	"Atomistic Simulations of a Two-Domain Protein on the Microsecond Time-Scale"
	9:40-10:00	Break	
	10:00-10:40	Gabor Csanyi	"A Systematic Bayesian Approach to Potentials"
	10:40-11:20 energies."	Jean-Philip Piquemal	"Improving polarizable force fields: from small energy differences to free
	11:20-11:40	Mike Schnieders	"Accelerating Polarizable Multipole AMOEBA Free Energy Calculations Using Orthogonal Space Methods"
	11:40-12:00	Open Discussion	
	Wednesday I 5:00-7:00	Evening Workshop dinner at Floradora	
	7:20-8:00	Nohad Gresh	"Development, Validation, Applications, and Perspectives of Polarizable, Anisotropic Molecular Mechanics Potentials"
	8:00-8:40	Laura Gagliardi	"Bridging the Gap between Quantum Chemistry and Classical Simulations for CO2"
Thursday Morning			
	7:30-8:00	Breakfast at the meeting site	
	8:00-8:40	Feng Wang	"Investigating the Free Energy of Ice and Water on a Coupled Cluster Quality Potential Energy Surface through a Force Field"
	8:40-9:20	Pengyu Ren	"Development of Polarizable Multipole Force Field and its Applications"

	9:20-9:40	Break	
	9:40-10:20	Alexander Tkatchenko	"Accurate and Efficient First-Principles Calculation of van der Waals Energy"
	10:20-11:00	Robert DiStasio	"Many-Body van der Waals Interactions: Theory and Applications"
	11:00-11:40	Jean-Pierre Dognon	"f-Elements Theoretical Chemistry: From Structure to Thermodynamics"
	11:40-12:00	Open Discussion	
Thursday Evening			
	6:00-9:00	Picnic	

Friday Morning

Departure