17th Annual Gibbs Conference on Biothermodynamics

	Saturday, September 27
4:00 - 7:00 pm	Check-in in Indian Room
7:00 - 10:00 pm	Reception in Indian Room
	Sunday, September 28
7:30-8:30	Breakfast
8:30-8:35	Introduction Wayne Bolen
	Keynote
8:35-9:35	James C. Lee
	"Communication Pathways within the Modular Protein cAMP Receptor Protein
	from E.coli"
9:35-10:00	Refreshment break
	Session I: Protein Folding and Stability
	(Moderator: James Hamburger)
10:00-10:35	Richard Dahlquist
	"The Source of Thermal Stabilty in the CheY from a Hyperthermophile"
10.40 10.55	Alexey V. Gribenko
10:40-10:55	"Mechanism of Thermostabilization in a Designed Cold Shock Protein with Optimized Surface Electrostatic Interactions"
	Yun-Ru Chen
11:00-11:15	" <u>Ca</u> spase <u>R</u> ecruitment <u>D</u> omains (CARD) of RICK and Procaspase-1"
	Kim Sharp
11:20-11:55	"How fish survive in polar waters and how macromolecules survive in polar
	solvent"
12:00-1:00	Lunch
1:00-3:00	Free time
	Session II: Solvation and the Denatured State
	(Moderator: Katie Tripp)
3:00-3:35	Robert Baldwin
	"Role of backbone solvation and electrostatics in generating preferred
	backbone conformations of peptides"
	Hugh Nymeyer
3:40-4:00	"Membrane Insertion without Folding: Replica Exchange Simulations of an
4.00 4.20	Alpha Helical Peptide in an Explicit Bilayer"
4:00-4:30	Refreshment break
4:30-4:45	Jorg Rosgen "Activity Coefficients of Aggregating Systems"
4:50-5:25	Trevor Creamer
	"The left-handed polyproline II helix"
6:00-7:00	Dinner
8:00-10:00	POSTER SESSION I (A-J)
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	Monday, September
7:30-8:30	Breakfast
	Session III: Nucleic Acid-Protein Ligand Interaction
	(Moderator: Scott Larson)
	David Wilson
8:30-9:05	"Surface Plasmon Resonance-Biosensor and Calorimetric
	Investigation of DNA-Organic Cation Interactions"
9:10-9:45	Liskin Swint-Kruse
	"Asymmetric Allosteric Transition Pathway in the LacI Core Domain
	Homodimer"
9:50-10:05	Eda Koculi
	"The effect of polyamines on the energy and structure of rate limiting
	transition state and final folded state of Tetrahymena ribozyme."
10:10-10:30	Refreshment break
10:30-11:05	Lihua Jin
	"Thermodynamics of Ligand Binding to <i>E. coli</i> Arginine Repressor"
	Ronald Shikiya
11:10-10:25	"Thermodynamic Contributions for the Incorporation of a Single Mismatc
11.10 10.10	into the $d(A_7C_5T_7C_5T_7)$ Intramolecular Triplex"
	Dorothy Beckett
11:30-12:05	"The Biotin Repressor: linkage of ligand binding, protein assembly and site
11.30-12.03	specific DNA binding"
12:10-1:10	Lunch
1:10-3:30	Free time
1.10 0.00	Session IV: Folding and Binding
	(Moderator: Daniel Isom)
	Lila Gierasch
3:00-3:35	"Monitoring Protein Stability and Aggregation In Vivo
	by Real-time Fluorescent Labeling"
	Terry Oas
3:40:4:15	•
	"D₂O, Thiourea and Fast Folding Proteins: Tales of an Accidental Thermodynamicist"
4:20-4:50	Refreshment Break
7,20-4,30	
4:50-5:05	Connie Yarian
	"Kinetic Study of Partially-Liganded Human Hemoglobin Intermediates
	Confirms a Dominant Pathway for Cooperative Ligand Binding"
5:10-5:45	Ed Lewis
	"Non-linear Least Squares Analysis of ITC Data: Simple to Complex Mode
	and Monte Carlo Evaluation of the Uncertainties in K, ΔH , and n Parameter
	Estimates"
6:00-7:00	Dinner
8:00-10:00	POSTER SESSION II (K-Z)

	Tuesday, September 30
7:30-8:30	Breakfast
	Session V: Electrostatics and Protein Surfaces
	(Moderator: Matt Auton)
8:30-9:05	Bertrand Garcia-Moreno
	"Experimental and computational studies of molecular determinants of pKa
	values "
0.10 0.25	Gary Heil
9:10-9:25	"Molecular Determinants of Side-Chain Conformations in Ubiquitin "
9:30-10:00	Refreshment break
	Travis Waldron
10:00-10:15	"Enthalpic and Entropic Contributions to a Protein-Ligand Interaction arising
	from Specific and Aspecific Salt Effects"
	Andrew Robertson
10:20-10:55	"Protein Phrenology: Determining Aptitudes and Tendencies of Proteins from
	Their Surface Properties"
11:00-12:30	Lunch