The Fifth Gibbs Conference on Biological Thermodynamics  
September 28-October 1, 1991  

SATURDAY  

No food available at Touch of Nature on Saturday  

4:00 p.m. - Registration in Little Grassy Lodge  

6:00 p.m. - Posters can be set up in Indian Lodge and remain up for the entire meeting  

8:00 p.m.  

Ernesto Freire  
Department of Biology  
The Johns Hopkins University  
The Molecular Basis of Cooperativity in Protein Folding  

9:00-11:00 p.m. - Informal Mixer  

SUNDAY a.m.  

8:00 - 9:00 a.m.  

Session Moderator: K. Murphy  

9:20 - 9:40  

Nick Pace  
Contribution of Hydrogen Bonding and the Hydrophobic Effect to the Conformational Stability of Ribonuclease Tl  

9:45 - 10:05  

Isaac Wong  
Mechanism of DNA-Unwinding by E. coli Rep Helicase  

10:10 - 10:30  

Wolfgang Schaller  
Calcium-Linked Conformational Changes in Calmodulin  

10:35 - 10:50  

Coffee Break  

10:50 - 11:10  

Diana Montgomery  
The Thermal Stability of Two Heat Shock Proteins: DnaK and Human HSP70  

11:15 - 11:35  

Michael Doyle  
Regulation of Oxygen Affinity by Quaternary Enhancement in Hemoglobin Ypsilanti: A Mutant Which Crystalizes in a New Quaternary Structure  

11:40 - 12:05  

Diane Frank  
Context Dependance of Interactions in the lac Repressor/Operator Complex  

12:30 - 1:30 p.m.  

Lunch
SUNDAY p.m.

4:00 - 6:00 p.m. - POSTER SESSION

6:30 - 7:30 p.m. Dinner

Session Moderator: D. Beckett

8:00 - 8:20 Enrico De Cera
Critical Phenomena in a Heterogeneous Lattice

8:25 - 8:45 Veronica Brushaber
Thermodynamic Study of Cation-Oligonucleotide Interactions by UV Absorption Spectroscopy

8:50 - 9:10 Yingwen Huang
Thermodynamic Description of Covalent and Noncovalent Changes in an Enzyme Catalyzed Reaction

9:15 - 9:40 p.m. Donald Haynie
Direct Measurement of the Intrinsic Enthalpies of the Molten Globule and Denatured States of Alpha-Lactalbumin

MONDAY a.m.

8:00 - 9:00 a.m. Breakfast

Session Moderator: H. Oberoi

9:15 - 9:35 Jannette Carey
Thermodynamics of Ligand Binding to trp Repressor

9:40 - 10:00 Ken Koblan
Energetics of Site-Specific Protein-DNA Interactions in Phage A

10:05 - 10:25 Tomasz Heyduk
DNA Bending and Salt-Induced Change in Conformation of CRP-lac DNA Complex

10:30 - 10:45 Coffee Break

10:45 - 11:05 George Makhatadze
Protein Interactions with Urea and Guanidinium Chloride. A Calorimetric Study

11:10 - 11:30 Jeff Livingstone
The Role of the Hydrophobic Effect in Protein Folding and Protein-Protein Association

11:35 - 12:00 Bertrand Garcia-Moreno E.
Electrostatic Basis of the Linkage Between pH, Salt and the Functional Thermodynamics of Hemoglobin

12:30 - 1:30 p.m. Lunch
MONDAY p.m.

4:00 - 6:00 p.m. POSTER SESSION
6:00 - 18:30 p.m. BUFFALO TRO
8:30 - ? Business Meeting

TUESDAY a.m.

8:00 - 9:00 a.m. Breakfast
Session Moderator: S. Bailey

9:15 - 9:35 Herb Halvorson
The Effect of Pressure on Calmodulin Interactions

9:40 - 10:00 Dave Bain
Development of a Thermodynamically Valid Cryogenic Gel Mobility Shift Assay

10:05 - 10:25 Marcel Santoro
The Functional Dependence of Thioredoxin Unfolding Free Energy Changes Over an Extended Concentration Range of Guanidine:HCl

10:30 - 10:45 Coffee Break

10:45 - 11:05 Mark Levandoski
Improvements in the Chemical Definition of the lac Repressor-Operator System

11:10 - 11:30 Charlene Yuan
Probing the Role of Electrostatic Effects in the Function and Regulation of E. coli Aspartate Transcarbamylase with Single Site Mutants

11:35 - 12:00 Isabel M. Plaza del Pi no
Thermodynamic Detection of Folding Intermediate.s in Ribonuclease T1

12:30 - 1:30 p.m. Lunch

1:30 - 2:00 - check out at Little Grassy Lodge