

8:30 - 9:15 a.m. *Registration and Breakfast*

9:15 - 9:30 a.m. *Welcome & Introduction*  
Mark Dumont

9:30 - 10:00 a.m. *Alan Senior*  
*Department of Biochemistry & Biophysics*  
*Structure of the ATP Synthase Molecular Nanomotor Stator Unit*  
*Using Synthetic Peptides and NMR*

10:00 - 10:30 a.m. *Harry Stern*  
*Department of Chemistry*  
*Algorithms for Calculating Electrostatic Forces in Biomolecular*  
*Simulations: General Triclinic Boundary Conditions and Optimal*  
*Green Functions for the Particle-Mesh Ewald Method*

10:30 - 10:45 a.m. *Break*

10:45 - 11:15 a.m. *Phil Knauf*  
*Department of Biochemistry & Biophysics*  
*Novel Fluorescence Energy Transfer Approaches to Biological*  
*Problems-Looking Where the Light Is*

11:15 - 11:45 a.m. *Charlie Mace (Ben Miller, Advisor)*  
*Department of Biochemistry & Biophysics*  
*Detection of Enteropathogenic *E. coli* by Reflective Interferometry*

12:00 - 1:45 p.m. *Lunch, Poster Session, and*  
*George Eastman House Tour*

2:00 - 2:30 p.m. *George DeJitta*  
*Hauptman-Woodward Institute*  
*So Many Images: So Few Crystals*

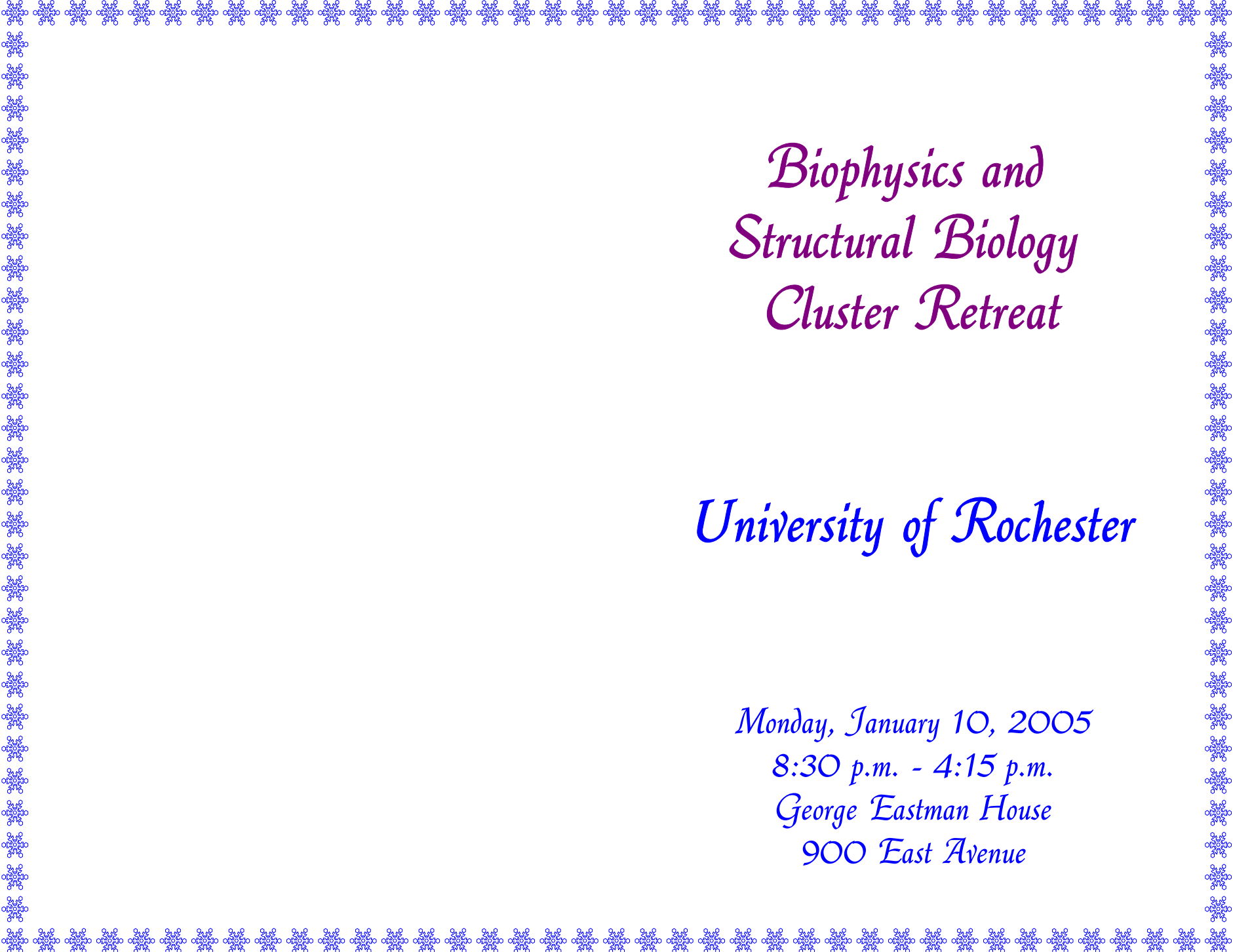
2:30 - 3:00 p.m. *Ed Petri (Ravi Basavappa, Advisor)*  
*Department of Biochemistry and Biophysics*  
*Crystallization Methods and Protein Engineering in the*  
*Structure Determination of Human Cyclin B1*

3:00 - 3:15 p.m. *Break*

3:15 - 3:45 p.m. *Jim Machonkin*  
*Department of Biochemistry & Biophysics*  
*Tyrosinase: A Target for Protein Engineering*

3:45 - 4:15 p.m. *Dave Mathews*  
*Department of Biochemistry & Biophysics*  
*Predicting Conformational Change Pathways*

*Closing Remarks*  
*Doug Turner*



*Biophysics and  
Structural Biology  
Cluster Retreat*

*University of Rochester*

*Monday, January 10, 2005*

*8:30 p.m. - 4:15 p.m.*

*George Eastman House*

*900 East Avenue*