

8:30 - 9:15 a.m. **Registration, Breakfast & Poster Set-Up**

9:15 - 9:20 a.m. **Introduction**
Bill Bernhard, Ph.D.

9:20 – 9:45 a.m. **Clara Kielkopf, Ph.D.**
Department of Biochemistry & Biophysics
Structural and Thermodynamic Mechanisms
of 3' Splice Site Recognition

9:45 – 10:10 a.m. **Lukas Novotny, Ph.D.**
The Institute of Optics
Single Molecule Fluorescence Studies
of Membrane Proteins

10:10 – 10:35 a.m. **Bill Bernhard, Ph.D.**
Department of Biochemistry and Biophysics
Physical-Chemical Mechanisms of Damage
Formation in DNA by the Direct Action of
Ionizing Radiation

10:35 – 10:55 a.m. **Break**

10:55 – 11:20 a.m. **Xiaodong Wang (J. Hayes, Advisor)**
Department of Biochemistry & Biophysics
The Effect of Acetylation on Interactions of
the Histone N-terminal Tail Domains With
DNA in Nucleosome Core Particles and
Nucleosome Arrays

11:20 – 11:50 a.m. **Mike King, Ph.D.**
Department of Biomedical Engineering
Multiscale Modeling of Receptor-Mediated
Platelet Adhesion Under Flow

11:50 – 12:00 noon **Memories of Phil Knauf, Ph.D.**
Rick Waugh, Ph.D.

12:00- 1:45 p.m. **Lunch, Posters, & Gallery Tour**

1:45 – 2:15 p.m. **Michael Malkowski, Ph.D.**
Hauptman-Woodward Medical Research Institute
and SUNY at Buffalo
Oxylipin Biosynthesis in Pathogen-Inducible
Oxygenase

2:15 –2:40 p.m. **Neelaabh Shankar (D. Turner, Advisor)**
Department of Biochemistry and Biophysics
Solution Structure of RNA Internal Loops
with Bulged Bases

2:40 – 3:10 p.m. **Ice Cream Break**

3:10 – 3:35 p.m. **Andy Torelli (J. Wedekind, Advisor)**
Department of Biochemistry & Biophysics
Comparison of a 2',5'-Phosphodiester Linkage to
Vanadium Oxide at the Cleavage Site of a Small
Ribozyme Offers a New Choice for Reaction
Intermediate Analogs

3:35 – 4:00 p.m. **Jim McGrath, Ph.D.**
Department of Biomedical Engineering
Revolutionary Molecular Separations Using
Ultrathin Silicon Membranes

4:00 p.m. **Closing Remarks**
Mark Dumont, Ph.D.

University of Rochester

Biophysics and

Structural Biology

Cluster Retreat

Dedicated to the Memory of Philip Knauf, Ph.D.

Organizers: Bill Bernhard, Mark Dumont, Jim McGrath

Thursday, January 11, 2007
Memorial Art Gallery
500 University Avenue
Rochester, New York 14607