<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 - 9:00 a.m.</td>
<td><strong>Registration, Breakfast &amp; Poster Set-Up</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 9:00 - 9:05 a.m. | **Introduction**  
Alan Grossfield, BSCB Retreat Organizer                                                                                       |                                                                                                          |
| 9:05 – 9:20 a.m. | **Paul La Celle, M.D.**  
Department of Pharmacology & Physiology  
The History of Biophysics in the School of Medicine and Dentistry                  |                                                                                                          |
| 9:25 – 10:00 a.m. | **Blanton Tolbert, Ph.D. (D. Turner ’06)**  
Miami University, Oxford, OH  
Assistant Professor of Chemistry & Biochemistry  
Probing the Molecular Determinants of HIV  
Alternative Splicing: NMR and Thermodynamic Studies of UP1/ESS3   |                                                                                                          |
| 10:05 – 10:25 a.m. | **Paul Black**  
(W. Bernhard, Advisor)  
Department of Biochemistry & Biophysics  
A Radiation Chemistry Model for Radiation Damage in X-ray Crystallography |                                                                                                          |
| 10:30 – 11:10 a.m. | **Morning Break/Poster Session**                                                                                                       |                                                                                                          |
| 11:15 – 11:35 a.m. | **Tod D. Romo, Ph.D.**  
Department of Biochemistry & Biophysics  
Multiscale Modeling of GPCRs Using Molecular Dynamics and Elastic Network Models   |                                                                                                          |
| 11:40 – 12:25 p.m. | **Career Panel Discussion**                                                                                                           |                                                                                                          |
| 12:30 - 1:40 p.m. | **Lunch, Tour Art Gallery**                                                                                                           |                                                                                                          |
| 1:45 – 2:00 p.m. | **Dmitri Ermolenko, Ph.D.**  
Department of Biochemistry & Biophysics  
Structural Dynamics of the Ribosome During Protein Synthesis |                                                                                                          |
| 2:05 – 2:20 p.m. | **Wenhua Wang**  
(C. Kielkopf, Advisor)  
Department of Biochemistry & Biophysics  
Phosphorylation-Dependent Conformational Changes in a Key Splicing Factor Complex  
Determined by Small-Angle X-ray Scattering |                                                                                                          |
| 2:25 – 2:45 p.m. | **Afternoon Break/Poster Session**                                                                                                     |                                                                                                          |
| 3:00 – 3:20 p.m. | **Kathy Clark, Ph.D.**  
Department of Biochemistry & Biophysics  
Improving the Pipeline for Membrane Protein Structure Determination                    |                                                                                                          |
| 3:25 – 3:45 p.m. | **Matthew Seetin**  
(D. Mathews, Advisor)  
Department of Biochemistry & Biophysics  
TurboKnot: Rapid Prediction of Conserved RNA Secondary Structures Including Pseudoknots |                                                                                                          |
| 3:50 – 4:10 p.m. | **Nathan T. Ross, Ph.D. (B. Miller ’08)**  
Novartis Institutes for BioMedical Research, Inc.  
Investigator II, High Throughput Biology Developmental & Molecular Pathways  
Multiple Approaches to Rational Design: Applications in Cancer, Schizophrenia, and Heart Disease |                                                                                                          |
| 4:25 – 5:00 p.m. | **Closing Remarks**  
Mark Dumont, BSCB Program Director                                                                                                     |                                                                                                          |
University of Rochester

Biophysics, Structural and Computational Biology

Program Retreat

Dedicated to the Memory of Dr. Leon Miller

Monday, October 11, 2010
Memorial Art Gallery
500 University Avenue
Rochester, New York 14607

Organizers: Alan Grossfield, Ben Miller and Mark Dumont
Student Organizers: Paul Black and Nicholas Leioatts

The Biophysics Retreat is partially funded by the Dr. William F. Neuman Educational Endowment