**Tuesday, June 5th**

- **Michael Malkowski** - Hauptman-Woodward Institute  
  “Flexibility Drives Substrate Promiscuity in Cyclooxygenase-2”

- **Brian Korgel** - The University of Texas Austin  
  “The Role of Ligands in Nanocrystal Superlattice Phase Behavior”

- **Neela Yennawar** – Penn State University  
  “Use of CHESS Beamlines for X-ray Crystallography and Small Angle X-ray Scattering Projects from Pennsylvania State University”

- **Joost Vlassak** – Harvard University  
  “A Combinatorial Technique for the Calorimetric Analysis of Nanoscale Quantities of Materials”

- **To Be Announced** – Winner(s) of the 2012 CHESS Research Paper Prize

- **Poster Session** - Awards for ‘best’ in two categories: Science and Technical Development  
  (awards to be presented on Wednesday)

- **After-Dinner Tribute** – Donald H. Bilderback – Retiring Associate Director of CHESS

**Wednesday, June 6th**

### Workshop I: “Nanocrystal Superlattices”

- **Hongyou Fan** – Sandia National Laboratories  
  “Pressure-directed Assembly of New Classes of Nanocrystal Superlattices and Nanostructures”

- **James Fang** – SUNY Binghamton  
  “Self-assembled Superstructure of Octahedral and Cubic Nanocrystals”

- **Tobias Hanrath** – Cornell University  
  “Nanocrystal Superlattices: a model system for artificial solids”

- **Richard Robinson** – Cornell University  
  “Chemical Transformations in Nanoparticles, Studied through X-ray Absorption Spectroscopy”

- **Greg Hura** - Lawrence Berkeley National Lab  
  “Solution Bio-SAXS in High-throughput at SIBYLS”

- **Richard Hennig** - Cornell University  
  “Prediction of Nanocrystal Morphology and Assembly”

### Workshop II: “Flexibility and Macromolecular Structure”

- **Markus Lill** - Purdue University  
  “Computational Prediction of Flexible Regions in Proteins that Interact with Ligands”

- **Joseph Marcotrigiano** - Rutgers University  
  “Structural Basis of RNA Recognition and Activation by Innate Immune Receptor RIG-I”

- **Zachary Wood** – University of Georgia  
  “Conformational Flexibility in the Allosteric Regulation of Human UDP-glucose 6-dehydrogenase”

- **Chae Un Kim** – Cornell University  
  “Water and Protein Dynamical Transition”

- **Greg Hura** - Lawrence Berkeley National Lab  
  “Solution Bio-SAXS in High-throughput at SIBYLS”

- **Richard Hennig** - Cornell University  
  “Prediction of Nanocrystal Morphology and Assembly”

For more information and registration:  