



18th Annual
Molecular Biophysics Minisymposium
Friday, May 5, 2006



Morning Session
Fiber Optics Auditorium

- 8:30 A.M. Breakfast
- 9:10 A.M. **Welcome – Wilma K. Olson**
Ronald M. Levy, Discussion Leader
- 9:15 A.M. Karunakar Kar
“Understanding the principles of self-association of the collagen model peptide (Pro-Hyp-Gly)₁₀”
- 9:30 A.M. Weiming Xu
“Template-assembled peptide models of the N-peptide helix bundle from HIV-1 gp41 that bind to C-peptide”
- 9:45 A.M. Jennifer Knight
“Modeling maximal structural diversity in X-ray crystallographic refinement: application to HIV-1 protease”
Smita Patel, Discussion Leader
- 10:00 A.M. Daibhid O'Maoileidigh
“Thermodynamic and kinetic modeling of transcriptional pausing”
- 10:15 A.M. Xiongying Tu
“Structural studies of AZT excision: dinucleoside tetraphosphate product complexes with HIV-1 RT and dsDNA template-primer”
- 10:30 AM Vasanti Subramanian Anand
“Mechanism of transcription elongation by a single subunit RNA polymerase”
- 10:45 AM Coffee Break
- 11:25 AM **Introduction of Keynote Speaker - Eddy Arnold**
- 11:30 A.M. **Molecular Biophysics Keynote Lecture**
Sir Tom L. Blundell (Cambridge University)
“Structural biology, multiprotein complexes and drug discovery: challenges and opportunities”
- 12:45 P.M. **Presentation of Student Awards - Kenneth Breslauer**

Afternoon Session
Busch Dining Hall

- 1:00 P.M. Lunch
- 1:45 - 3:30 P.M. **Poster Session - Poster Contest**

Sponsored by: Center for Molecular Biophysics and Biophysical Chemistry,
BioMaPS Institute, Protein Data Bank, and Center for Advanced Biotechnology and Medicine