

Protein Folding: Biophysics, Biology, & Beyond

9:00-9:30 - Refreshments, Introductory remarks

9:30-10:10 - **Karen Fleming**

Biophysics Department, Johns Hopkins University

"Adventures in folding membrane proteins"

10:10-10:50 - **William Eaton**

Laboratory of Chemical Physics at NIDDK, NIH

"The physical basis for inhibiting hemoglobin S fiber formation to treat sickle cell disease"

Coffee Break

11:00-11:40 - **Dave Thirumalai**

Department of Chemistry, The University of Texas at Austin

"Out of equilibrium glassy dynamics of interphase chromosomes"

11:40-12:20 - **Victor Muñoz**

Bioengineering Department, University of California, Merced

"Engineering Protein Assemblies with Built-In Allosteric Control Based on Monomer Fold-Switching"

Lunch

2:00-2:40 - **Dorothy Beckett**

Department of Chemistry & Biochemistry, University of Maryland

"How Does Coupled Binding & Folding Yield Allostery?"

2:40-3:20 - **Annon Horovitz**

Department of Structural Biology, Weizmann Institute of Science

"Chaperonin nano-machines: allostery and function"

Coffee Break

3:30-4:10 - **G. Marius Clore**

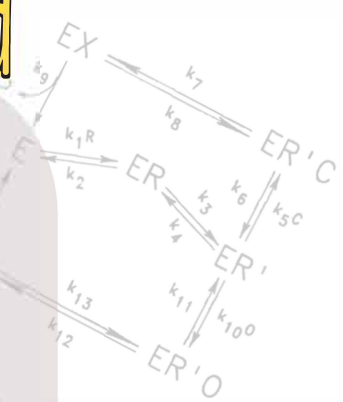
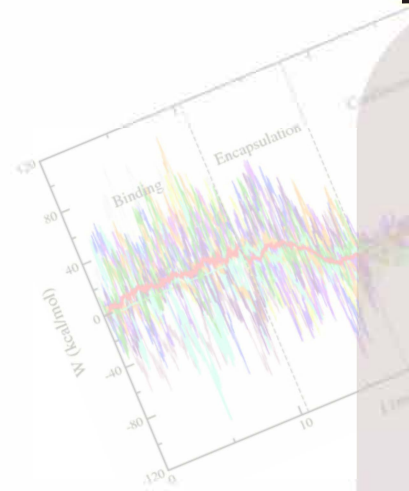
Laboratory of Chemical Physics, NIDDK, NIH

"Exploring dark states in substrate-GroEL interactions by NMR"

4:10-4:50 - **George Lorimer**

Department of Chemistry & Biochemistry, UMD

"GroEL: a protein machine with rings, hinges and pistons"



$Q = O_2$
 $X = \text{keto-CABP}$
 $Q = \text{P-glycolate}$

