## 1993 TEXAS PROTEIN FOLDERS MEETING

MAY 7 - 9, 1993

## THE DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS TEXAS A&M UNIVERSITY COLLEGE STATION, TEXAS

## SPONSORED BY

CENTER FOR MACROMOLECULAR DESIGN OF THE INSTITUTE OF BIOSCIENCES AND TECHNOLOGY, TEXAS A&M UNIVERSITY

AND

THE PROTEIN SOCIETY

Contributions to the conference were provided by:

The Protein Society
The Center for Macromolecular Design, Texas A&M University

Fisher Scientific Beckman Instruments

Savant Instruments

Office of the Associate Provost for Research and Graduate Studies, Texas A&M University

Department of Biochemistry and Biophysics, Texas A&M University

## Schedule for the 1993 Texas Protein Folding Meeting

Friday May 7 4:00-10:00 pm Registration, Biochemistry Foyer Deli buffet dinner at the Ag CaFe, Biochemistry Building 5:30-6:45 pm Welcoming remarks 7:00-7:10 pm 108 Biochemistry Building Dr. Thomas Baldwin, Professor & Director - Center for Macromolecular Design 7:00 pm Dr. Robert A. Kennedy, Associate Provost for Research & Graduate Studies 7:05 pm Structures and Modelling Session 1 108 Biochemistry Building 7:15-10:15 pm Chair: Edgar Meyer, Texas A&M University - College Station Elizabeth J. Goldsmith - HHMI, University of Texas Southwestern Medical 7:15 pm Center - Dallas Structural basis of latency in plasminogen activator inhibitor-1 7:55 pm Allen Edmundson - Harrington Cancer Center - Amarillo Immunoglobulin folding--past and present 8:35 pm Break 8:55 pm Monte Pettitt - University of Houston - Houston Molecular dynamics of metmyoglobin in aqueous solution Edgar Meyer - Texas A&M University - College Station 9:35 pm The structural and functional properties of bound water in proteins Posters (1st and 2nd floor foyers, Biochemistry Building) 10:15-11:30 pm Saturday May 8 7:00-8:30 am Continental breakfast at the Ag CaFe and poster viewing (1st and 2nd floor foyers) Session 2 Determinants of Folding and Stability in vitro and in vivo 8:30-11:30 am 108 Biochemistry Building Chair: Jim Hu, Texas A&M University - College Station 8:30 am Jeff Kelly, Texas A&M University - College Station The relationship between transthyretin protein denaturation, amyloid fibril

formation, and the mutations that cause early onset amyloid disease

Session 2	Continued
9:10 am	Wayne Bolen, University of Texas Medical Branch - Galveston Stabilization of proteins by natural occurring osmolytes
9:50 am	Break
10:10 am	Tim Palzkill, Baylor College of Medicine - Houston  Chance, necessity and the evolution of $\beta$ -lactamase
10:50 am	Jim Hu, Texas A&M University - College Station  Genetic dissection of leucine zipper dimerization
11:30-1:30 pm	Deli lunch at the Ag CaFe and poster viewing (1st and 2nd floor foyers)
Session 3 1:30-3:30 pm	Folding Kinetics - Intermediates and Pathways  108 Biochemistry Building  Chair: Tom Baldwin, Texas A&M University - College Station
1:30 pm	Paul Horowitz, University of Texas Health Science Center - San Antonio  Protein folding can be assisted by chaperones, micelles or liposomes
2:10 pm	Alain Chaffotte, Institut Pasteur and Texas A&M University - College Station Secondary structure of early intermediates in protein folding
2:50 pm	Leisha Mullins, Texas A&M University - College Station Investigation of folding intermediates in RNase T1 by hydrogen-deuterium exchange
3:20-5:00 pm	Posters (1st and 2nd floor foyers, Biochemistry Building)
Keynote speake	
5:00-6:00 pm	108 Biochemistry Building
	George Rose, Washington University, St. Louis, MO  The α-helix: stability and specificity
	Sponsored by the Protein Society and the CMD
6:30-7:30 pm 7:30-10:30 pm	Reception at the College Station Hilton and Conference Center Fajita buffet dinner at the Hilton A few brief comments-  Perspectives on Biochemistry at Texas A&M University: Martyn Gunn The Protein Society - A Texas Subunit?: Tom Baldwin The Protein Society: Historical perspectives and objectives: Finn Wold
•	Fajita buffet dinner at the Hilton A few brief comments Perspectives on Biochemistry at Texas A&M University: Martyn C The Protein Society - A Texas Subunit?: Tom Baldwin

Sunday May 9 7:30-9:00 am	Continental breakfast in Biochemistry Foyer & poster viewing (1st & 2nd floor foyers)
Session 4 9:00-12:00 noon	Folding in vivo  108 Biochemistry Building Chair: Lila Gierasch - University of Texas Southwestern Medical Center - Dallas
9:00 am	Sylvie Blond - University of Texas Southwestern Medical Center - Dallas Specificity and regulation of activity of the molecular chaperone BiP
9:40 am	H.F. "Gil" Gilbert - Baylor College of Medicine - Houston  Chaperone mediated protein folding in vitro
10:20 am	Break
10:40 am	Max Wynn - University of Texas Southwestern Medical Center - Dallas  Chaperonin-assisted folding and assembly of the components of a mammalian  mitochondrial complex in Escherichia coli
11:20 pm	George Georgiou - University of Texas - Austin In vivo protein aggregation and the formation of inclusion bodies in E. coli