

W-Pos167 TRANSIENT ELECTRIC BIREFRINGENCE OF RABBIT STRIATED MUSCLE MYOSIN OBTAINED FROM DIFFERENT SOURCES, Sonja Krause and Kusuma Thallam, Dept. of Chemistry, Rensselaer Polytechnic Institute, Troy, NY 12180.

The birefringence relaxation time, and therefore the conformation in solution, of rabbit striated muscle myosin obtained from J. F. Koretz, Biology Dept., Rensselaer Polytechnic Inst. (sample A) and from the laboratory of W. F. Harrington, Dept. of Biology, The Johns Hopkins Univ. (sample B) are strikingly different. Both differ from values obtained by Bernengo and Cardinaud, *J. Mol. Biol.* (1982) 159, 501 (sample C), in high ionic strength phosphate buffer at pH 7, which were consistent with a myosin conformation that included a 90 degree bend between the light and heavy meromyosin portions of the molecule. Data on sample B, obtained in 10 mM pyrophosphate buffer at pH 8 to 9 both by Hvist et al, *Biopolymers* (1984) 23, 1283, and in the present work, are consistent with the extended conformation of myosin. Data on sample A, obtained in this work, both in 2 mM and 10 mM pyrophosphate buffer at pH 9 and in high ionic strength phosphate buffer at pH 7, are internally consistent but do not agree with data on samples B or C. Because of the overlap of buffer systems and pH used for the different samples, the differences in data cannot be ascribed to the different buffer systems but are probably due to different impurities present in the different samples. The birefringence relaxation time of sample B decreases ~ 32% as the temperature increases from 25°C to 40°C in 10 mM pyrophosphate buffer at pH 9, indicating a somewhat increased flexibility of myosin with increasing temperature.

Supported by the National Science Foundation, Grant No. CHE 83-08089

W-Pos168 INFLUENCE OF THE SIDE CHAIN PHOSPHATE ON THE BINDING OF REDUCED FLAVIN TO AZOTOBACTER APOFLAVODOXIN. D.E. Edmondson and G. Williamson (Intr. by D.B. McCormick) Dept. Biochem., Emory Univ., Atlanta, GA 30322

The effect of the side-chain phosphate on the affinity of Azotobacter apoflavodoxin for the various redox levels of flavin has been determined by redox potential measurements on reconstituted apoprotein complexes with FMN and with riboflavin (RFL). Both native and reconstituted FMN-apoprotein complexes have, at pH 8.0, one-electron couples of -203 mV (PF/PFH⁺) and -500 mV (PFH[·]/PFH⁻). The same couples for the RFL-apoprotein complex were determined to be -277 and -251 mV, respectively. Approximately 23% of neutral RFL semiquinone is thermodynamically stabilized on 1-electron reduction of the RFL-apoprotein complex. The binding of the hydroquinone forms of riboflavin and of FMN to apoflavodoxin were also measured directly from the quenching of the tryptophanyl fluorescence of the apoprotein. The respective K_a values determined by this approach were in reasonable agreement with those calculated from the redox potential data. These show that the apoflavodoxin exhibits stronger affinities for the oxidized and neutral semiquinone forms of FMN than for riboflavin by factors of 10³ and >10⁴, respectively; however, the affinity for the hydroquinone form of FMN was only 3-10 times than for reduced riboflavin. These data suggest that electrostatic repulsion between the anionic side-chain phosphate and the anionic N(1) position of the flavin hydroquinone does not contribute to the reduced binding affinity of the apoflavodoxin for the reduced FMN relative to the oxidized form. (Supported by NIH Grant GM-29433).

W-Pos169 MOLECULAR AND STOCHASTIC DYNAMICS OF PROTEINS Walter Nadler and Klaus Schulten, Dept. of Physics, Technical University of Munich, 8046 Garching, Fed. Rep. Germany

The microscopic short-time dynamics of proteins resulting from molecular dynamics simulations (collaboration with Karplus et. al.) can be reproduced on a longer time scale by stochastic Langevin equations involving selected degrees of freedom. For this purpose one has to determine the local viscosity of the atomic motions by means of the corresponding velocity autocorrelation functions. The viscosity can be extrapolated to describe the 3-dimensional motion of subunits which contain many atoms. The extrapolated viscosity yields a satisfactory description of the Moessbauer spectra of Myoglobin by Parak et. al. which account for the 1-100 ns dynamics of the heme group. However, on this time scale the heme group appears to be often trapped in conformational substates a feature which increases the effective viscosity of the group by a factor 100. Our comparision of the stochastic motion of single atoms in proteins was based on a solution (in terms of the velocity correlation function) of the Langevin equation for a harmonic potential. The analysis of the Moessbauer data involved the solution of the Langevin equation for a general 3-dimensional corrugated (many substates) potential surface in the limit of strong friction in terms of the Pade approximation of the Moessbauer line shape function reproducing correctly its low and the high frequency dependence.

BIOPHYSICAL JOURNAL

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(continued on inside back cover)

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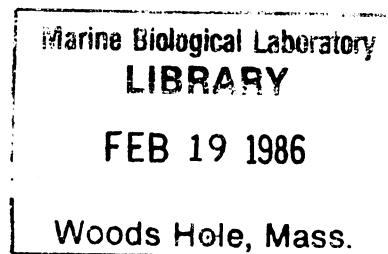
BIOPHYSICAL JOURNAL

PROGRAM AND ABSTRACTS

THIRTIETH ANNUAL MEETING

9-13 FEBRUARY 1986

Brooks Hall/Convention Center, San Francisco, California



PROGRAM: SYMPOSIA, MINISYMPOSIA, CONTRIBUTED

9-13 February 1986	MONDAY		TUESDAY
	A.M.	P.M.	A.M.
SYMPOSIA	<i>Solvation Phenomena in Biopolymer Systems</i> M-AM-Sym1-4 Polk Hall 9:00-12:00	<i>Molecular Biophysics of Sensory Phenomena</i> M-PM-Sym1-3 Polk Hall 1:30-5:00	<i>New Dimensions in NMR of Macromolecules</i> T-AM-Sym1-4 Polk Hall 9:00-12:00
MINISYMPOSIA			<i>Biophysics of Transduction in Taste and Olfaction</i> T-AM-Min1-5 Larkin Hall I 9:00-12:00
ORAL REPORTS	<i>Channels I</i> M-AM-A Larkin Hall I <i>Muscle Physiology</i> M-AM-B 406-410 <i>Excitation Contraction Coupling I</i> M-AM-C 415 <i>Membrane Fusion</i> M-AM-D 316 <i>Sensory Transduction and Receptor Interactions</i> M-AM-E 322-326 <i>Photosynthesis</i> M-AM-F 321-325 <i>Heme Proteins I</i> M-AM-G Larkin Hall II <i>Visual Receptors</i> M-AM-H 304 <i>Active Transport</i> M-AM-I 308-310	<i>Sodium Channels I</i> M-PM-A Larkin Hall I <i>Muscle Biochemistry</i> M-PM-B 406-410 <i>Physical Chemistry of Nucleic Acids</i> M-PM-C 315 <i>Cardiac Electrophysiology I</i> M-PM-D 322-326 <i>Protein Physical Chemistry and Dynamics</i> M-PM-E Larkin Hall II <i>Optical Spectroscopy</i> M-PM-F 303	<i>Myosin-Linked Regulation</i> T-AM-A 406-410 <i>Excitation Contraction Coupling II</i> T-AM-B 415 <i>Lipid Protein Interactions</i> T-AM-C 316 <i>Calcium Channels I</i> T-AM-D 322-326 <i>Intercellular Communication</i> T-AM-E 308-310 <i>Bioenergetics and Mitochondria</i> T-AM-F 321-325 <i>Bacteriorhodopsin</i> T-AM-G 304
POSTER SESSIONS	<i>Smooth & Nonmuscle Contractile Proteins</i> (1-12) <i>Smooth Muscle Physiology</i> (13-26) <i>Biochemistry and Biophysics of Cell Motility</i> (27-43) <i>Physiology of Cardiac and Skeletal Muscle</i> (44-64) <i>New Biophysical Measurements & Instrumentation</i> (65-81) <i>Bioenergetics & Mitochondria</i> (82-110) <i>Radiation Biophysics</i> (111-116) <i>Protein Conformation, & Structure I</i> (117-154) <i>Lipid Membranes Lytic Mechanisms</i> (155-159) <i>Diffraction & Crystal Structures</i> (160-163) <i>Nucleic Acid Conformation & Structure</i> (164-190) <i>Membrane Fusion</i> (191-206) <i>Membrane Structure</i> (207-211) <i>Liposome Encapsulated Hemoglobin</i> (212-213) <i>Erythrocyte Membranes</i> (214-237) <i>Lipid Protein Interactions</i> (238-256) <i>Epithelial Physiology</i> (257-274) <i>Potassium Channels</i> (275-309) <i>Calcium Channels</i> (310-321) <i>Neurobiology</i> (322) <i>Secretion</i> (323-328)		<i>Muscle Proteins I</i> (1-33) <i>Muscle Physiology & Ultrastructure</i> (34-68) <i>Biophysical Theory & Modelling</i> (69-82) <i>Visual Receptors</i> (83-113) <i>Protein Conformation & Structure II</i> (114-148) <i>Nucleic Acid-Physical Chemistry</i> (149-168) <i>Bilayer Probes & Dynamics</i> (169-191) <i>Phase Behavior of Lipid Membranes</i> (192-208) <i>Polymerizable Lipid Systems</i> (209-212) <i>Physical Chemistry of Lipids</i> (213-223) <i>Optical & Magnetic Resonance Spectroscopy</i> (224-259) <i>Intercellular Communication</i> (260-276) <i>Cardiac Electrophysiology</i> (277-307) <i>Membrane Receptors</i> (308-323) <i>Acetylcholine Receptors</i> (324-333) <i>Channels</i> (334-352) <i>Channels: Biophysics & Theory</i> (353-367) <i>Sodium Channels</i> (368-382)

ORAL REPORTS, AND POSTERS

TUESDAY		WEDNESDAY		THURSDAY	
P.M.	A.M.	P.M.		A.M.	
<i>Applications of Molecular Biology to Active Transport</i> T-PM-Sym1-4 Polk Hall 1:30-5:00	<i>Interactions in Supramolecular Assemblages</i> W-AM-Sym1-4 Polk Hall 9:00-12:00	<i>Internal Transmitter Mechanisms in Retinal Rods</i> W-PM-Min1-4 Polk Hall 1:30-5:00		<i>Protein Folding</i> Th-AM-Sym1-4 Polk Hall 9:00-12:00	
<i>Potassium Channels I</i> T-PM-A Larkin Hall I	<i>Sodium Channels II</i> W-AM-A Larkin Hall I	<i>Channels III</i> W-PM-A Larkin Hall I		<i>Potassium Channels II</i> Th-AM-A Larkin Hall I	
<i>Muscle Proteins: Structure and Function</i> T-PM-B 406-410	<i>Smooth Muscle Physiology & Biochemistry</i> W-AM-B 406-410	<i>Biochemistry and Biophysics of Cell Motility</i> W-PM-B 406-410		<i>Th-AM-B Workshop: Fluorescence Imaging of Calcium in Single Cells</i> 406-410	
<i>Nucleic Acid-Protein Complexes and Viruses</i> T-PM-C 315	<i>FORUM</i>	<i>Physiology and Ultrastructure of Skeletal Muscle</i> W-PM-C 415		<i>Erythrocyte Membranes</i> Th-AM-C 316	
<i>Channels II</i> T-PM-D 322-326	<i>Muscle Contraction Frontiers & Controversies</i> W-AM-C 415	<i>Nucleic Acid Conformation & Structure</i> W-PM-D 315		<i>Photochemical Reaction Centers</i> Th-AM-D 321-325	
<i>Sarcoplasmic Reticulum I</i> T-PM-E 308-310	<i>Membrane Structure</i> W-AM-D 316	<i>Calcium Channels II</i> W-PM-E 322-326		<i>Sarcoplasmic Reticulum II</i> Th-AM-E 308-310	
<i>Heme Proteins II: Myoglobin & Hemoglobin</i> T-PM-F Larkin Hall II	<i>Epithelial Physiology</i> W-AM-E 322-326	<i>Physical Properties of Bilayers</i> W-PM-F 316		<i>Membrane Receptors</i> Th-AM-F 304	
<i>Theory and Modelling</i> T-PM-G 303	<i>Cardiac Electrophysiology II</i> W-AM-F 308-310	<i>Protein Conformation & Structure</i> W-PM-G Larkin Hall II			
	<i>Magnetic Resonance Spectroscopy</i> W-AM-G Larkin Hall II				

NATIONAL LECTURER
Shinya Inoue
Leeuwenhoek, Huygens and the Future of Biophysics
 Tuesday evening
 11 February 1986

Molecular Biology of Muscle (1)
Muscle Proteins II (2-34)
Membrane Currents & E C Coupling (35-70)
New Optical NMR, EPR, & Diffraction Methods (71-91)
Bacteriorhodopsin & Halorhodopsin (92-117)
Photosynthesis (118-136)
Protein Physical Chemistry & Dynamics (137-170)
Lipid Membrane Interactions (171-179)
Phospholipid Cholesterol Interactions (180-186)
Electrostatic Interactions between Lipid Bilayers (187-195)
Lipid Membrane Interactions with Drugs (196-206)
Transport (207-216)
Membrane Reconstitution Studies (217-228)
Nucleic Acid Protein Complexes and Viruses (229-246)
Enzymology/Molecular Biology (247-251)
Enzymology (252-259)
Heme Proteins (260-292)
Active Transport (293-324)
Sensory Transduction & Receptor Interactions (325-331)
Sarcoplasmic Reticulum (332-369)

SYMPOSIA

I. SOLVATION PHENOMENA IN BIOPOLYMER SYSTEMS

Monday, February 10, 1986, 9:00 - 12:00 noon, Polk Hall

Chaired by: *David Chandler*

M-AM-Sym1	<i>David Chandler</i> SOLVENT INDUCED INTERACTIONS AND STRUCTURE IN AQUEOUS SOLUTIONS
M-AM-Sym2	<i>Lawrence R. Pratt</i> MOLECULAR DYNAMICS OF ION MOTIONS IN SOLUTION AND NEAR SOLUTION INTERFACES
M-AM-Sym3	<i>J.A. McCammon</i> LIGAND-RECEPTOR INTERACTIONS IN WATER
M-AM-Sym4	<i>William L. Jorgensen</i> COMPUTER SIMULATIONS OF ORGANIC AND BIOMOLECULAR SYSTEMS IN SOLUTION

II. MOLECULAR BIOPHYSICS OF SENSORY PHENOMENA

Monday, February 10, 1986, 1:30 - 5:00 p.m., Polk Hall

Chaired by: *Lubert Stryer*

M-PM-Sym1	<i>Jeremy Nathans</i> MOLECULAR GENETIC STUDIES OF HUMAN COLOR VISION
M-PM-Sym2	<i>Melvin Simon</i> MOLECULAR BASIS OF SIGNAL TRANSDUCTION
M-PM-Sym3	<i>William A. Catterall</i> MOLECULAR PROPERTIES OF NEURONAL SODIUM CHANNELS

III. NEW DIMENSIONS IN NMR OF MACROMOLECULES

Tuesday, February 11, 9:00-12:00 noon, Polk Hall

Chaired by: *David E. Wemmer*

Tu-AM-Sym1	<i>David E. Wemmer</i> DNA STRUCTURE AND DRUG BINDING STUDIED BY NMR
Tu-AM-SYM2	<i>R. R. Ernst</i> EXPLORING MACROMOLECULES BY NUCLEAR SPINS
Tu-AM-SYM3	<i>Robert G. Griffin</i> HIGH RESOLUTION SOLID-STATE NMR STUDIES OF BACTERIORHODOPSIN
Tu-AM-Sym4	<i>A.J. Wand</i> TWO DIMENSIONAL ^1H NMR OF THE CYTOCHROMES C

IV. APPLICATIONS OF MOLECULAR BIOLOGY TO ACTIVE TRANSPORT

Tuesday, February 11, 1986 1:30-5:00 p.m. Polk Hall

Chaired by: *H. R. Kaback*

T-PM-Sym1	<i>H.R. Kaback</i> ELECTROCHEMICAL ION GRADIENTS AND ACTIVE TRANSPORT: PASSAGE TO PERMEASE
T-PM-Sym2	<i>G. Ferro-Luzzi Ames</i> MOLECULAR MECHANISM OF HISTIDINE TRANSPORT IN BACTERIA
T-PM-Sym3	<i>Dale L. Oxender</i> GENETIC STUDIES OF AMINO ACID TRANSPORT IN CHINESE HAMSTER OVARY CELLS
T-PM-Sym4	<i>H.G. Khorana</i> RECENT WORK ON BACTERIORHODOPSIN

V. INTERACTIONS IN SUPRAMOLECULAR ASSEMBLAGES

Wednesday, February 12, 1986 9:00-12:00 a.m. Polk Hall

Chaired by: *Wayne A. Hendrickson*

W-AM-Sym1	<i>Hartmut Michel</i> INTERACTIONS BETWEEN COMPONENTS IN THE PHOTOSYNTHETIC REACTION CENTER FROM <i>RHODOPSEUDOMONAS VIRIDIS</i>
W-AM-Sym2	<i>S. C. Harrison</i> PROTEIN/DNA INTERACTIONS IN THREE DIMENSIONS: CRYSTALLOGRAPHIC STUDIES OF REPRESSOR/OPERATOR COMPLEXES
W-AM-Sym3	<i>Roberto J. Poljak</i> THE THREE-DIMENSIONAL STRUCTURE OF ANTIBODIES
W-AM-Sym4	<i>Michael G. Rossmann</i> STRUCTURE, FUNCTION, AND EVOLUTION OF HUMAN RHINOVIRUS 14

VI. PROTEIN FOLDING

Thursday, February 13, 9:00-12:00 a.m. Polk Hall

Chaired by: *Robert L. Baldwin*

Th-AM-Sym1	<i>Robert L. Baldwin</i> ALPHA-HELIX FORMATION BY SHORT PEPTIDES IN WATER
Th-AM-Sym2	<i>John A. Schellman</i> THE THERMODYNAMICS OF PROTEIN DENATURATION: SINGLE AND MULTIPLE AMINO ACID VARIANTS OF BACTERIOPHAGE T4 LYSOZYME
Th-AM-Sym3	<i>George D. Rose</i> A SCALE OF HYDROPHOBICITY DERIVED FROM PROTEINS OF KNOWN STRUCTURE
Th-Am-Sym4	<i>W. F. DeGrado</i> DESIGN OF A SYNTHETIC FOUR-HELICAL BUNDLE PROTEIN

MINISYMPOSIA

I. BIOPHYSICS OF TRANSDUCTION IN TASTE AND OLFACTION

Tuesday, February 11, 9:00-12:00 Larkin I

Chaired by: *Sheella Mierson*

Tu-AM-Min1	<i>Sheella Mierson</i> ION TRANSPORT MECHANISMS IN SALT TASTE TRANSDUCTION
Tu-AM-Min2	<i>Gerard Heck</i> ELECTRICAL PROPERTIES OF THE FROG OLFACTORY EPITHELIUM IN VITRO
Tu-AM-Min3	<i>Susan Schiffman</i> BRETYLIUM TOSYLATE ENHANCES SALT TASTE
Tu-AM-Min4	<i>Fay Ferrell</i> EFFECTS OF GENOTYPE AND DIETARY SODIUM CHLORIDE ON TASTE RESPONSES IN HYPERTENSIVE AND NORMOTENSIVE RATS
Tu-AM-Min5	<i>Doron Lancet</i> CYCLIC NUCLEOTIDE CASCADE IN OLFACTORY TRANSDUCTION

II. INTERNAL TRANSMITTER MECHANISMS IN RETINAL RODS

Wednesday, February 12, 1:30-5:00 p.m. Polk Hall

Chaired by: *Denis A. Baylor*

W-PM-Min1	<i>Denis A. Baylor</i> GATING AND CONDUCTION IN THE LIGHT-SENSITIVE CHANNELS OF RETINAL RODS
W-PM-Min2	<i>W. A. Hagins</i> A CRITIQUE OF SOME MODELS FOR INTRACELLULAR TRANSMISSION IN RODS AND CONES
W-PM-Min3	<i>King-Wai Yau</i> ROLES OF CALCIUM AND CYCLIC GMP IN VISUAL TRANSDUCTION IN RETINAL RODS
W-PM-Min4	<i>T. D. Lamb</i> CALCIUM AND LIGHT-ADAPTATION IN RETINAL ROD PHOTORECEPTORS

SUBGROUP MEETING PROGRAM

SUNDAY AFTERNOON, FEBRUARY 9, 1986

BIOENERGETICS SUBGROUP 1:00 - 5:30 p.m.

Robert Simoni, Stanford University
Organizer

MOLECULAR APPROACHES TO BIOENERGETICS

Robert Simoni, Stanford University
Introductory Remarks and Overview

Michael Douglas, University of Texas
TARGETING AND PROCESSING SIGNALS FOR ASSEMBLY OF THE MITOCHONDRIAL F₁ ATPase β SUBUNIT

Robert O. Poyton, University of Colorado
NUCLEAR CODED GENES FOR CYTOCHROME-C OXIDASE

David H. MacLennan, University of Toronto
MOLECULAR GENETICS OF THE Ca⁺⁺ ATPase OF SARCOPLASMIC RETICULUM

Masamitsu Futai, Osaka University
GENETIC STUDIES OF THE FUNCTIONAL RESIDUES OF PROTON ATPase

Karlheinz Altendorf, Universitat Osnabrück
BIOCHEMICAL RESOLUTION OF THE F₀ PORTION OF THE *E.COLI* F₁F₀ COMPLEX

Robert D. Simoni, Stanford University
STRUCTURE, FUNCTION AND BIOGENESIS OF THE H⁺-ATPase Complex of *E.COLI*

MEMBRANE BIOPHYSICS SUBGROUP 1:00 - 5:30 p.m.

Peter K. Lauf, Wright State University School of Medicine
Organizer

CHEMICAL MODIFICATION AND PROBES OF MAJOR ION TRANSPORT PATHWAYS

Peter K. Lauf, Wright State University
Introduction and Announcement of the 1986 Cole Award

C. L. Borders, Jr., College of Wooster
CHEMICAL GROUP REACTIVITY AND TRANSPORT PROTEIN MODIFICATION

M. Jennings, University of Iowa
CHEMICAL MODIFICATION OF ESSENTIAL AMINO ACID RESIDUES IN RED BLOOD CELL BAND 3 PROTEIN

B. Deuticke, Aachen, Federal Republic of Germany
SULPHYDRYLE AND PASSIVE ION PERMEABILITY

L. Cantley, Harvard University
REGULATION OF Na⁺/K⁺ ATPase

I. Levitan, Brandeis University
REGULATION OF NEURONAL ION CHANNELS BY PROTEIN PHOSPHORYLATION

D. C. Eaton, University of Texas
MODIFICATION OF Na⁺ CHANNEL KINETICS BY AMINO-GROUP REAGENTS

E. Wright, University of California
FLUORESCENCE PROBES OF ACTIVE SITES ON THE Na GLUCOSE COTRANSPORTER

CONTRACTILITY SUBGROUP

Organizers: *Lois Greene*, National Institutes of Medicine
David Thomas, University of Minnesota

WEAK-BINDING AND RELATED CROSS-BRIDGE STATES

Speakers: *H. Huxley*
M. Schoenberg
E. Eisenberg
E. Pate
P. Fajer
R. Craig
M. Reedy

Evening Session Lecture: *Edward Korn*
STRUCTURE-FUNCTION STUDIES ON THE ACANTHAMOEBA MYOSIN ISOENZYME: MINI-MYOSINS MAKE MINI-MUSCLES

MOLECULAR BIOPHYSICS SUBGROUP 1:00 - 5:30 p.m.
Robert M. Stroud, University of California, San Francisco
Organizer

MACROMOLECULAR INTERACTIONS

Robert M. Stroud
Introductory Remarks

Richard E. Dickerson
RATIONAL PRINCIPLES IN THE DESIGN OF DNA GROOVE BINDING DRUGS

Jim Wells
ENZYME SUBSTRATE INTERACTIONS PROBED BY SITE DIRECTED MUTATION

Jim Hogle
THE 3-D STRUCTURE OF POLIO VIRUS: IMPLICATIONS FOR ASSEMBLY AND IMMUNE RECOGNITION

GENERAL INTEREST

SUNDAY, February 9, 1986, 1:00 - 5:00 p.m.

Future of Analytical Ultracentrifugation
Room 316

SUNDAY, February 9, 1986, 2:00 - 6:00 p.m., Room 203/205

Opening of the Irving Geis Art Exhibit
"Thirty Years of Visualizing Macromolecular Structure"
Reception 4:00 - 6:00 p.m.

SUNDAY EVENING, February 9, 7:00-11:00 p.m., Room 408
"Shirt-sleeves Biophysics". Informal mixer and discussion for
students, new members, and guests.

MUSIC BOX LUNCHES 12:00 - 1:30 p.m.
Box lunches will be available on Monday, February 10 and Wednesday, February 12 in the Main Arena.
Live music will be presented on Monday and Wednesday during lunch.

SPECIAL FILM
"Fatty Acid Monolayer on Water Surface"
Monday, February 10, 1986 12:00 - 12:15 p.m. Room 316

EXHIBITORS' MIXER, Brooks Hall
Monday, February 10, 5:00-7:00 p.m.

RED CELL CLUB MEETING, Room 408
Monday, February 10, 7:00 p.m.

BIOLOGY OF SURVIVAL SUBGROUP MEETING
Monday, February 10, 8:00 p.m. Larkin Hall I
"Pesticides and Health: California Farmworkers Today"
Speaker: Nayvin Gordon, M.D., San Diego, California

ANNUAL BUSINESS & COUNCIL MEETING, Main Arena
Tuesday, February 11, 7:30 - 9:00 a.m.
Continental Breakfast Available

30th ANNIVERSARY LUNCHEON
Tuesday, February 11, 12:00 - 1:30 p.m. Main Arena

SOCIETY MIXER/DINNER
Tuesday, February 11, 5:30 - 7:30 p.m. Main Arena
Presentation of the Margaret Oakley Dayhoff Award 8:00 p.m.

SHINYA INOUE, NATIONAL LECTURER 8:15 p.m. Main Arena
"Leeuwenhoek, Huygens, and the Future of Biophysics"

Women's Caucus Luncheon — Organized by Jane Koretz
Wednesday, February 12, 12:00-1:30 p.m. Room 301
Box lunches available
Luncheon coincides with "Workshop on Availability of Research Funding: Specifics on Opportunities for Women"
Speaker: Gretchen Kline
Organizers and Co-chairs: Maria Correa-Friere and Martha Farmer

SEMINAR: Biostructures, Room 302
1986 Semi Annual PRT Luncheon
Wednesday, February 12, 12:00 - 1:30 p.m.

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