SATURDAY NIGHT

No food available at Touch of Nature on Saturday

4:00 - ? Registration

5:00 - ? Informal Cash Bar (Beer and Wine available on site)

SUNDAY A.M.

8:00 - 9:00 Breakfast

9:15 - 9:20 Welcome

9:20 - 9:40 1. Kinlin Chao
DNA-induced Dimerization of Escherichia coli Rep Helicase

9:40 - 9:45 Discussion

9:45 - 10:05 2. David P. Mascotti
Thermodynamics of Oligopeptide-Nucleic Acid Interactions

10:05 - 10:10 Discussion

10:10 - 10:30 3. Peter E. Schlax, Jr.
The Effects of Sequence and Length on E. coli Promoter Spacer Regions

10:30 - 10:35 Discussion

10:35 - 10:50 Break

10:50 - 11:10 4. S.M. Law
Calculation of DNA Physical Properties \textit{in vivo} Using the DNA Looping Process

11:10 - 11:15 Discussion

11:15 - 11:35 5. Veronica Brashaber
Investigating Divalent Cation Interactions with DNA using $^{23}$Na NMR

11:35 - 11:40 Discussion
SUNDAY A.M. (Continued)

11:40 - 12:05

Discussion

12:05 - 12:10

Lunch

SUNDAY P.M.

Poster "Put-Up" after Lunch. Will remain up for rest of meeting.

6:30 - 7:30  Dinner

8:00 - 8:20  6. Y. Huang
Protein Structure Stabilization Effects in Acylenzyme Intermediates

8:20 - 8:25  Discussion

8:25 - 8:45  7. G. Signor
Cold Unfolding in T4 Lysozyme: Study of Variants with
Engineered Disulfide Bridges

8:45 - 8:50  Discussion

8:50 - 9:10  8. Jeff R. Livingstone
A General Expression for the Contribution of Nonpolar Surface
Area Burial to the Overall Free Energy Change of Protein Folding

9:10 - 9:15  Discussion

Dynamic Simulations of Lipid Bilayers

9:40 - 9:45  Discussion
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 9:00</td>
<td>Breakfast</td>
<td></td>
</tr>
<tr>
<td>9:35 - 9:40</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>9:40 - 10:00</td>
<td>11. D. Mallikarachchi</td>
<td>Energetics of Dissociation and Unfolding of the Catalytic Subunit of <em>E. coli</em> Aspartate Transcarbamylase</td>
</tr>
<tr>
<td>10:00 - 10:05</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>10:05 - 10:25</td>
<td>12. Glen Ramsay</td>
<td>Development of Thermal Gradient Gel Electrophoresis as an Analytical Technique</td>
</tr>
<tr>
<td>10:25 - 10:30</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>10:30 - 10:45</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>10:45 - 11:05</td>
<td>13. Qiang Ye</td>
<td>Phase Transition Kinetics of Binary Lipid Mixture Membranes</td>
</tr>
<tr>
<td>11:05 - 11:10</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>11:30 - 11:35</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>11:35 - 12:00</td>
<td><strong>Maurice Smil</strong></td>
<td></td>
</tr>
<tr>
<td>12:00 - 12:05</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>12:30 - 1:30</td>
<td>Lunch</td>
<td></td>
</tr>
</tbody>
</table>
MONDAY P.M.

4:00 - 6:00
POSTER SESSION

6:00 - 8:30
BUFFALO TRO

8:30 - ?
Business Meeting

TUESDAY A.M.

8:00 - 9:00
Breakfast

9:15 - 9:35
15. Vince J. LiCata

9:35 - 9:40
Discussion

9:40 - 10:00
16. George J. Turner
Effects of Temperature on the Cooperative Mechanism of Oxygenation in Human Hemoglobin with Single Amino Acid Alterations

10:00 - 10:05
Discussion

10:05 - 10:25
17. Michael L. Doyle
Cooperative Oxygenation and Subunit Assembly of Cobaltous Human Hemoglobin

10:25 - 10:30
Discussion

10:30 - 10:45
Break

10:45 - 11:05
18. Margaret A. Daugherty
Effects of Protons on the Energetics of Cooperativity for the Intermediate Allosteric Species of Human Hemoglobin

11:05 - 11:10
Discussion
TUESDAY A.M. (Continued)

11:10 - 11:30  19. David W. Ownby  
Nonlinear Optical Effects in Ligand Binding Reactions of  
Hemoglobin A

11:30 - 11:35  Discussion

11:35 - 12:00  Rod Billopen  B.K. Lee

12:00 - 12:05  Discussion

12:30 - 1:30  Lunch

2:00 - 2:00  Bus Leaves for St. Louis Airport

2:01  You Missed the Bus!!!