

**Brain Science at the Interface of Biological, Physical and Mathematical  
Sciences, Computer Science, and Engineering:  
Analysis of New Opportunities**

**March 4-6, 2007  
Westin Arlington Gateway Hotel**

**Agenda**

**Sunday, March 4**

6:00-8:00 PM Reception (hors d'oeuvres, cash bar)  
*Westin, Pinzimini Restaurant, Private Rooms, 1<sup>st</sup> Floor*

**Monday, March 5**

8:00-8:15 AM *Westin, Fitzgerald Ballroom D&E, 2<sup>nd</sup> Floor*  
Welcome  
Arden Bement, Director, NSF  
Kathie Olsen, Deputy Director, NSF

8:15-8:30 AM Goals and Plan for the Workshop  
Chris Wood, Santa Fe Institute

8:30-9:30 AM Perspectives on Opportunities in Neuroscience  
*Neuroethological and Developmental Mechanisms: Molecular and  
Cellular Approaches*  
Eve Marder, Brandeis University  
*Organization of Behavior: Emerging Principles*  
Partha Mitra, Cold Spring Harbor Laboratory  
*Plasticity, Learning and Development*  
Jay McClelland, Stanford University  
*Signal Processing and its Development in the Brain*  
Emery Brown, Massachusetts Institute of Technology

9:30-10:00 AM Break

10:00-10:45 AM Perspectives on Opportunities in Neuroscience  
*Measuring the Brain: From Synapse to Thought*  
Jonathan Sweedler, University of Illinois  
*Cognitive Systems Across Levels of Analysis in Brain Systems*  
Marcus Raichle, Washington University  
*Biomimetics and the Neuron/Silicon Interface*  
Ted Berger, University of Southern California

10:45-12:30 PM Breakout Sessions: Homework Presentations and Discussion  
*Room assignments to be announced*

12:30-2:00 PM Working Lunch

2:00-3:30 PM Breakout Sessions: Identify, Analyze, and Prioritize Opportunities

3:30-4:00 PM Break

4:00-6:00 PM Breakout Sessions: Identify, Analyze, and Prioritize Opportunities

6:30-8:30 PM Reception (hors d'oeuvres, cash bar)  
*NSF Atrium/Front Page Grill*

## **Tuesday, March 6**

8:30-10:00 AM *Westin, Fitzgerald Ballroom D&E, 2<sup>nd</sup> Floor*  
Prepare for Discussion with NSF Leadership

10:00-12:00 PM Discussion  
Arden Bement, Director, NSF  
Kathie Olsen, Deputy Director, NSF  
NSF Assistant Directors

12:00-1:00 PM Working Lunch

1:00-3:00 PM Breakout Sessions: Report writing

3:00-3:30 PM Break

3:30-5:00 PM Read-back: Identify, Analyze, and Prioritize Opportunities

5:00 PM Adjourn