

**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, 1st Floor

Monday, March 5

7:15-8:00 AM *Westin, Fitzgerald Ballroom D&E, 2nd Floor*
Continental Breakfast

8:00-8:15 AM 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
Josh Tenenbaum, Massachusetts of Technology
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
Jay McClelland, Stanford University
Biomimetics and the Neuron/Silicon Interface
Ted Berger, University of Southern California

10:45-12:30 PM	Breakout Sessions: Homework Presentations and Discussion <i>Room assignments to be announced</i>
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) <i>NSF Atrium/Front Page Grill</i>

Tuesday, March 6

7:15-8:00 AM	<i>Westin, Fitzgerald Ballroom D&E, 2nd Floor</i> Continental Breakfast
8:30-9:30 AM	Prepare for Discussion with NSF Leadership
9:30-10:00 AM	Break
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