

# "Promoting Neural Plasticity"

Feb. 15, 2008

Tempe, Arizona

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Presented by

## The Center for Adaptive Neural Systems

Participating units:

IRA A. FULTON SCHOOL OF ENGINEERING

Center for Adaptive Neural Systems  
Harrington Department of Bioengineering  
Department of Chemical Engineering  
Department of Electrical Engineering  
Imaging and 3D Data Exploitation and Analysis Lab

COLLEGE OF LIBERAL ARTS AND SCIENCES

Department of Kinesiology  
Department of Mathematics and Statistics  
School of Life Sciences

Supported by  
National Science Foundation  
SBE-0518697  
Arizona State University  
<http://ans.asu.edu>





**Center for Center for Adaptive Neural Systems**

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## **THE CENTER FOR ADAPTIVE NEURAL SYSTEMS**

presents a symposium on “Promoting Neural Plasticity”

This symposium is the second in a series of three symposia and workshops supported by a grant from the National Science Foundation Science and Learning Centers program to discuss the science and engineering of learning. Our primary goal in this series is to explore key issues regarding co-adaptation, i.e. the integration of adaptive engineered systems with adaptive biological systems. This goal, in turn, is driven by the desire to design prosthetic devices in which adaptive engineered systems are seen as interacting in dynamic ways and across many levels of organization, from the cellular to the behavioral, with adaptive biological systems. The focus on the technology side is on adaptive actuators and sensors, and on the IT side on adaptive algorithms and modeling. Plasticity of the living system is a cross-cutting theme. In the symposium, life scientists, engineers, mathematicians and clinician-scientists will discuss limitations and opportunities for anticipated advances in enabling technologies and strategies to promote adaptation and learning in the nervous system.

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