

Judicial Seminar on Emerging Issues in Neuroscience

Sponsored by the American Association for the Advancement of Science, the Federal Judicial Center, the National Center for State Courts, and the Dana Foundation

Hosted by Stanford University
December 7-8, 2006

AGENDA

DAY 1, December 7

8:00 am **Continental Breakfast**

8:30 a.m. **Welcome and Introductions**
Mark S. Frankel (AAAS), Joe Cecil (FJC), Nicole Waters (NCSC), Edward F. Rover (Dana Foundation), Larry Kramer (Dean of Stanford Law School)

9:00 a.m. **Neuroscience Methods and Technology**
David J. Heeger, New York University, will provide an overview of the technologies and methods used in brain research and what they can tell us.

10:15 a.m. **Break**

10:30 a.m. **Panel on Evaluating Science**
A scientist, lawyer and a judge will address the distinctions between “good” and “bad” science and how that relates to admissibility in court proceedings. In other words, what should judges look for when considering the admissibility of neuroscience evidence?

O. Carter Snead, Notre Dame School of Law

Susan Yvonne Illston
United States District Court for the Northern District of California

David J. Heeger

12:00 noon **Lunch**

1:00 p.m. **Cognition, Emotion and Decision-Making**

Michael Gazzaniga, University of California, Santa Barbara, will discuss what neuroscience tells us about how people process information and

make decisions, including the effect of emotion and social factors on human learning and behavior.

2:15 p.m. Break

2:30 p.m. The Neuroscience of Pain

Scott M. Fishman, UC-Davis, will focus on what neuroscience research can contribute to developing an objective basis for assessing pain.

3:45 p.m. The Neuroscience of Addiction

George Koob, Scripps Research Institute and UC-San Diego, will discuss the neurobiological basis of addiction.

5:00 p.m. Tour of fMRI Labs at Stanford

6:30 p.m. Group Dinner

DAY 2, December 8

8:30 am Continental Breakfast

9:00 a.m. Panel on Memory and Lie Detection

Neuroscience research is exploring the formation of memory and whether it may be possible to distinguish “true” memories from “false” ones. This research could have implications for pre-trial investigations, evidence admissibility, trial testimony, and perjury charges.

Memory: Anthony Wagner, Stanford University

Lie Detection: Judy Illes, Stanford University

10:30 a.m. Break

10:45 a.m. Comatose, Vegetative, and Minimally Conscious States

D. Alan Shewmon, UCLA Medical Center, will address how neuroscience could change the way we think about comatose and unresponsive patients.

12:00 p.m. Case Studies

Case studies illustrating the uses of neuroscience will be presented. The judges will be actively involved in considering the legal/evidential issues raised by the cases.

During the lunch break, the judges will assemble in small groups to discuss the cases.

12:30 p.m. Lunch and Small Group Discussions

1:45 p.m. Feedback from Small Groups and Discussion

2:30 p.m. Violence and the Brain
Robert Sapolsky, Stanford University, will discuss the neurobiological bases of violence.

3:45 p.m. Closing comments, departing treats, and adjournment