

## **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, the American Bar Association Judicial Division, and the Dana Foundation**

**AAAS Headquarters  
12<sup>th</sup> and H streets, NW, Washington, D.C.  
October 5-6, 2015**

### **AGENDA**

#### **DAY 1, October 5**

- 8:15 a.m. Continental Breakfast at AAAS**
- 8:45 a.m. Welcome and Introductions**  
**Mark S. Frankel** (AAAS), **Brenda Baldwin White** (FJC) and **Barbara Rich** (Dana Foundation)
- 9:00 a.m. Neuroanatomy, Neuroscience Methods and Technology**  
**Thos Cochrane**, Harvard University, will provide an overview of the technologies and methods used in brain research and what they can tell us.
- 10:30 a.m. Break**
- 11:00 a.m. The Neuroscience of Pain**  
**Dan Clauw**, University of Michigan, will discuss what happens in the brain when a person experiences pain.
- 12:15 a.m. Lunch**
- 1:15 p.m. The Neuroscience of Memory**  
**Craig Stark**, University of California, Irvine, will discuss the formation of memory and whether it may be possible to distinguish “true” memories from “false” ones and whether deception can be detected using imaging technology.
- 2:30 p.m. Break**
- 3:00 p.m. Coma and the Vegetative and Minimally Conscious States**  
**Michael Williams**, LifeBridgeHealth, Baltimore, will describe the physiology of impaired states of consciousness and discuss the ethical and legal issues regarding life sustaining interventions.
- 4:15 p.m. Adjourn for the day**

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**6:30 p.m.      Group Dinner at Bibiana**

**DAY 2, October 6**

**9:00 a.m.      Continental Breakfast at AAAS**

**9:30 a.m.      The Neuroscience of Violence**  
**Joshua Buckholtz**, Harvard University, will discuss what we know about the neuroscience related to violent offenders and what this knowledge might contribute to legal determinations.

**10:45 a.m.      Break**

**11:00 a.m.      The Neuroscience of Substance Dependence**  
**Jodi Gilman**, Harvard University, will discuss what effects substance dependence has on the brain and how dependence can be treated.

**12:15 a.m.      Lunch**

**1:15 p.m.      The Neuroscience of Dementia**  
**Dorene Rentz**, Harvard University, will discuss the changes that occur in the brain with degenerative diseases, such as Alzheimer's.

**2:30 p.m.      Closing Comments**

**2:45 p.m.      Adjourn**