

National Institutes of Health Advisory Committee to the Director

Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Working Group

OPEN SESSION AGENDA — JULY 29, 2013; 8:30–12:30 (EDT)

Location: Brigham and Women's Hospital, Bornstein Amphitheater; Boston, Massachusetts
Dial In: 1-888-469-0870; Passcode: BRAIN

8:30 AM **Introductions and Opening Remarks**
Cori Bargmann, PhD, and Bill Newsome, PhD
Co-chairs, ACD BRAIN Working Group

INVITED PRESENTATIONS – WHAT IS THE STATE OF THE SCIENCE?

COMPUTATION, THEORY, AND BIG DATA

8:40 AM **Theoretical Approaches to Circuits and Systems**

8:40 AM Eve Marder, PhD
Victor and Gwendolyn Beinfeld Professor of Neuroscience, Brandeis University

8:55 AM Bruno Olshausen, PhD
Director of the Redwood Center for Theoretical Neuroscience and Professor, University of California, Berkeley

9:10 AM Todd Coleman, PhD
Associate Professor of Bioengineering, University of California, San Diego

9:25 AM **Analysis of Human Brain Activity**

9:25 AM Patrick Purdon, PhD
Instructor of Anaesthesia, Harvard University, and Assistant in Bioengineering, Massachusetts General Hospital

9:40 AM Jack Gallant, PhD
Professor of Psychology, University of California, Berkeley

9:55 AM Stephanie Jones, PhD
Assistant Professor of Neuroscience, Brown University

10:10 AM **Break**

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10:25 AM Data and Analysis

- 10:25 AM Uri Eden, PhD
Associate Professor of Statistics, Boston University
- 10:40 AM Kristin Branson, PhD
Lab Head, Janelia Farm Research Campus
- 10:55 AM Maryann Martone, PhD
Professor-in-Residence, University of California, San Diego
- 11:10 AM Jennifer Chayes, PhD
Distinguished Scientist and Managing Director, Microsoft Research

11:25 AM Computation and Theory

- 11:25 AM Sebastian Seung, PhD
Professor of Computational Neuroscience, Massachusetts Institute of Technology
- 11:40 AM Kwabena Boahen, PhD
Professor of Bioengineering, Stanford University
- 11:55 AM Surya Ganguli, PhD
Assistant Professor of Applied Physics, Stanford University

12:10 PM Public Comments

12:30 PM Concluding Remarks and Open Session Adjournment

Cori Bargmann, PhD, and Bill Newsome, PhD
Co-chairs, ACD BRAIN Working Group