

THIRTY-FIFTH ANNUAL INTERDISCIPLINARY CONFERENCE

Teton Village, Jackson Hole, Wyoming

January 24 – January 29, 2010

Organizer: George Sperling, University of California, Irvine

Proceedings

Sunday, January 24: 5:15 - 5:55 pm *****Reception******Registration, Snacks, and Refreshments.*

Sunday, January 24: 6:00 - 8:00 pm **Binocular Combination, Binding, and Chromatic Aberration** (Organizer: Steve Shevell)

Larry Cormack, *U. Texas, Austin*. Motion processing with two eyes in three dimensions.

Steve Shevell, *U. Chicago*. What neural representation mediates perceptual memory for rivalrous images?

Don MacKay, *UCLA*. Error detection, binding and the medial temporal lobe: Evidence from amnesic HM.

Florent Autrusseau, *University of Nantes*. Chromatic and wavefront aberrations: Estimates of typical & individual variation in retinal images.

Monday, January 25: 4:00 – 8:00 pm **Attention, Psychoacoustics and Speech** (Organizer: Misha Pavel)

Petr Janata, *UC Davis*. Probability structure in music and the coordination of brain networks across multiple timescales.

Barbara Shinn-Cunningham, *Boston U.* Dynamics of focusing and switching auditory attention.

Hynek Hermansky, *Johns Hopkins U.* Multistream recognition of speech.

Shihab Shamma, *U. Maryland*. Coherence as the basis of complex scene analysis.

Paul Sajda, *Columbia U.* Sparse decoding of neural dynamics by a large-scale model of V1.

Misha Pavel, *Oregon Health & Science U.* Early perceptual stimulus processing and triage.

Tuesday, January 26: 4:00 – 8:00 pm **Neural Computation** (Organizer: John Reynolds)

Bill Geisler, *U. Texas, Austin*. Consequences of noise for neural encoding and decoding.

Valentin Dragoi, *U. Texas, Houston*. Noise and correlated variability in visual cortical networks.

Adam Kohn, *Albert Einstein College of Medicine*. Relating response variability across stages of cortical processing.

Nick Priebe, *U. Texas, Austin*. Variability, spike threshold and stimulus selectivity in primary visual cortex.

John Reynolds, *Salk Inst.* Spatial attention decorrelates intrinsic activity fluctuations in macaque area V4.

Tania Pasternak, *U. Rochester*. Memory-related signals in the prefrontal cortex depend on cell type only in the absence of sensory stimulation.

Wednesday, January 27: 4:00 – 8:00 pm **Sleep, Aging, Cue Utilization, and Perceptual Learning**

Roger Ratcliff, *Ohio State U.* Sleep deprivation, the psychomotor vigilance task and driving (and simple RT).

Tom Busey, *Indiana U.* On the nature of age-related changes in visual temporal order judgment performance.

Ulman Lindenberger, *Max Planck Inst.*, Heterogeneity in cognitive aging: Genetic and imaging evidence.

Matthias Scheutz, *Indiana U.* Gendered voice and robot entities: Do males and females view robots differently?

Ben Backus, *SUNY*. Properties of learned perceptual bias.

Barbara Doshier, *UC Irvine*. Task precision in visual attention.

Thursday, January 28: 4:00 – 8:00 pm **Physiological, Applied, Experimental and Theoretical Perception**

Xiaoping Hu, *Emory U.* Functional and effective connectivities in resting state brain networks derived from fMRI data.

Richard Shiffrin, *Indiana U.* Explaining noisy data: Normative and generative models of function estimation.

Zhong-Lin Lu, *USC*. Binocular combination in normal and amblyopic vision.

Ulrich Mayr, *U. Oregon*. Capturing the dynamics of control via eye movements.

George Sperling, *UC Irvine*. Modeling the time course of the first few seconds of binocular rivalry.

**Brief Business Meeting

Friday, January 29: 4:00 – 8:00 pm **Friday Night Miscellany**

Nicholas Port, *Indiana U.* Ocular-motor performance of Indiana University varsity athletes.

Chi-Hung Juan, *Nat'l Central U., Taiwan*. The antisaccade cost is modulated by contextual experience of location probability.

Jeff Mulligan, *NASA Ames*. Empirical measurement of visual conspicuity.

Kerry Jordan, *Utah State U.* Intersensory redundancy enhances early numerical abilities.

Danielle McNamara, *U. Memphis*. Linguistic features of writing.

* * * 8:20pm Banquet * * *

Attendees

John Antrobus, *CUNY*

Eric Egan, *Ohio State U.*

Izidor Gertner, *CUNY*

Bruce Henning, *U. Oxford, UK*

Holly Jimison, *OHSU*

Jessica Love, *Ohio State U.*

Eric Mais, *U. Hawaii*

Gail McKoon, *Ohio State U.*

Tim McNamara, *Vanderbilt U.*

Bennet Murdock, *U. Toronto*

Erica Okada, *U. Hawaii*

Corey White, *Ohio State U.*