THIRTY-SECOND ANNUAL INTERDISCIPLINARY CONFERENCE

Teton Village, Jackson Hole, Wyoming

February 4 – February 9, 2007

Organizer: George Sperling, University of California, Irvine

Proceedings

Sunday, February 4: 5:15 - 5:55 pm***Reception***Registration, Snacks, and Refreshments. The Inn, Room 230

Sunday, February 4: 6:00 - 8:00 pm***First Night Miscellany The Inn, Rimrock Room

Richard Shiffrin, Indiana U. Infomercial on Cross-Country Skiing.

Holly Jimison, Oregon Health & Science U. Embedded Assessment of Verbal Fluency in a Computer Games Environment.

Misha Pavel, Oregon Health & Science U. Model-Based Assessment of Cognitive Functions from Computer Games.

Steve Shevell, U. Chicago. And The Beat Goes On: Bono's Theory of Induced Temporal Modulation.

Monday, February 5: 3:45 – 4:15 pm The Inn, Room 230, **Reception**

Monday, February 5: 4:20 – 8:00 pm Neural Mechanisms of Visual Cognition (Organizer: Tatiana Pasternak)

John Reynolds, Salk Institute. Neural Mechanisms of Visual Attention in Macaque Area V4.

Keith Schneider, U. Rochester. fMRI Attention Modulation in LGN and Superior Colliculus.

George Sperling, UC Irvine. A Functional Architecture for Visual Attention: Application to Visual Spatial Attention.

Zhong-Lin Lu, USC. Covert Attention Enhances Stimuli and Excludes External Noise in Early Visual Areas.

Tatiana Pasternak, U. Rochester. Response Demands Modulate Prefrontal Cortex Neurons.

Anthony Norcia, Smith-Kettlewell. Periodic Visual Stimuli Lead to Anticipatory EEG Responses in Prefrontal & Occipital Cortex.

Tuesday, February 6: 4:00 – 8:00 pm Visual Receptive Fields; Decision Making (Organizers: Tatiana Pasternak & George Sperling)

James Elder, York U. A Geometric Model of V1 Neural Selectivity.

Paul Sajda, Columbia U. Circuitry & Classification of V1 Simple & Complex Cells.

Mike Shadlen, U. Washington/Hughes Inst. A Neural Mechanism for Decision-Making.

Alex Pouget, U. Rochester. Bayesian Decisions With Probabilistic Population Codes.

Peter Latham, University College London. Optimal Decision Making: Random Dots Revisited.

Bruce Cumming, Lab. of Sensorimotor Research, NEI. Subspace Mapping to Investigate the Origin of Choice Probability.

Wednesday, February 7: 4:00 – 8:00 pm Perception 1

David Heeger, NYU. Visual and Motor Adaptation in the Human Mirror System.

Ken Britten, UC Davis. Neural Mechanisms of Optic Flow Processing and the Perception of Self-Motion.

Ted Wright, UC Irvine. Equisalience Function Analysis.

Peter Dixon, U. Alberta. Memory-Based Action.

Shihab Shamma, U. Maryland. Representation of Speech in Primary Auditory Cortex.

Randolph Blake, Vanderbilt U. Psychoacoustics of a Chilling Sound.

Thursday, February 8: 4:00 – 8:00 pm Perception 2

Dave Peterzell, UC San Diego. Cracking Sensory Codes Using Individual Differences.

Tom Busey, *Indiana U.* On the Nature of Privileged Visual Stimuli: An Interaction Between Noise and Inversion.

David Whitaker, *U. Bradford*. Multisensory Adaptation to Temporal Asynchrony.

Jeff Mulligan, NASA Ames. Oculomotor Mechanisms Revealed by the Delayed Feedback Paradigm.

John Antrobus, CUNY. Fast, Accurate Recognition: Utility and Context: Repetition Priming with Visual Words.

Barbara Dosher, UCI. Object Attention: Mechanisms and Dependencies.

Friday, February 9: 4:00 – 8:00 pm Cognition

Lingvun Zhang, UC San Diego. Probabilistic Search 1.0: A New Theory of Visual Search.

Randy Gallistel, Rutgers U. Using Information Theory to Better Understand Associative Learning.

Ragnar Steingrimsson, UC Irvine. Time-Order Error in the Context of a Theory of Global Psychophysics.

Ken Malmberg, U. South Florida. Towards an Understanding of Individual Differences in Episodic Memory.

Richard Shiffrin, *Indiana U.* How Predictive Information Affects Object Identification.

* * * 8:20pm Banquet * * *

Attendees

Stefanie Drew, UC Irvine
Pam Jeter, UC Irvine
Danting Liu, UC Irvine
Michael Jones, Indiana U.
Fabio Leite, Ohio State U.

Ling Lin, UC Irvine
Danting Liu, UC Irvine
Roger Ratcliff, Ohio State U.
Jessica Love, Ohio State U.
Gail McKoon, Ohio State U.
Corey White, Ohio State U.

^{**}Brief Business Meeting**