

2012 OXYOPIA LECTURES

Samuel Miao-Sin Wu, PhD

Professor of Ophthalmology, Neuroscience, and Molecular Physiology & Biophysics
Baylor College of Medicine, Houston, TX

Title: *Synaptic pathways mediating rod and cone signals in the retina*

Edward N. Pugh, Jr., PhD

Professor of Physiology, Center for Neuroscience
University of California, Davis

Title: *Role of 11-cis retinal in ER quality control of cone opsin biosynthesis*

Pablo Argueso, PhD

Asst. Professor of Ophthalmology, Harvard Medical School
Asst. Scientist, Schepens Eye Research Institute

Title: *Role of plasma membrane carbohydrates in the protection of the ocular surface*

Donald Hood, PhD

James F. Bender Professor of Psychology and Ophthalmology
Columbia University, NY

Title: *Comparison of Local Structural (Anatomical) and Functional (Behavioral) Damage in Patients with Diseases of the Outer Retina or Retinal Ganglion Cell*

Michael Stryker, PhD

Professor and William F. Ganong Endowed Chair in Physiology
University of California, San Francisco

Title: *Mechanisms of competition in visual cortex and the role of active vision in recovery from deprivation*

Darlene Dartt, PhD

Senior Scientist, Director of Scientific Affairs

Harold F. Johnson Research Scholar, Schepens Eye Research Institute

Massachusetts Eye and Ear; and Associate Professor of Ophthalmology

Harvard Medical School, Boston, MA

Title: *Protective responses of conjunctival goblet cells to infection and inflammation*

Fei-Fei Li, PhD

Assistant Professor, Dept. of Computer Science, Stanford Vision Lab

Stanford University

Title: *Object and Scene Perception: From Behavior to Brain*

Daniel Kersten, PhD

Professor, Dept. of Psychology, Computational Vision Lab

University of Minnesota

Title: *Perceiving Object Materials: From Lightness to Shininess*

C. Wayne Smith, MD

Chief, Pediatrics, Section of Leukocyte Biology

Baylor College of Medicine, Houston, TX

Title: *Direct benefit of acute inflammation in corneal wound healing*

E. J. Chichilnisky, PhD

Professor, Systems Neurobiology Laboratories

Salk Institute for Biological Studies, San Diego

Title: *Functional circuitry of the retina at single cell resolution*

Adam Hickenbotham, OD, PhD

PhD Candidate, UCSF/UCB Joint Graduate Group in Bioengineering

Roorda Adaptive Optics Lab, School of Optometry

University of California, Berkeley

Title: *The Etiology of Presbyopia, Contributing Factors, and Future Correction Methods*

David Knill, PhD

Professor, Department of Brain and Cognitive Sciences

University of Rochester, Rochester, NY

Title: *The ubiquitous role of statistical learning in visual perception*

Howard Egeth, PhD

Professor, Department of Psychological & Brain Sciences

Johns Hopkins University, Baltimore, MD

Title: *Rock on! Top-down control of perceptual processing*

Emily Cooper, PhD Candidate in Neuroscience

Martin Banks Laboratory

University of California, Berkeley

Title: *Is stereo vision optimized for our natural environment?*

Gerald Westheimer, OD, PhD

Professor of the Graduate School, Division of Neurobiology, Molecular & Cell Biology

Clinical Professor of Optometry Emeritus

University of California, Berkeley

Title: *Measuring Visual Form Discrimination*