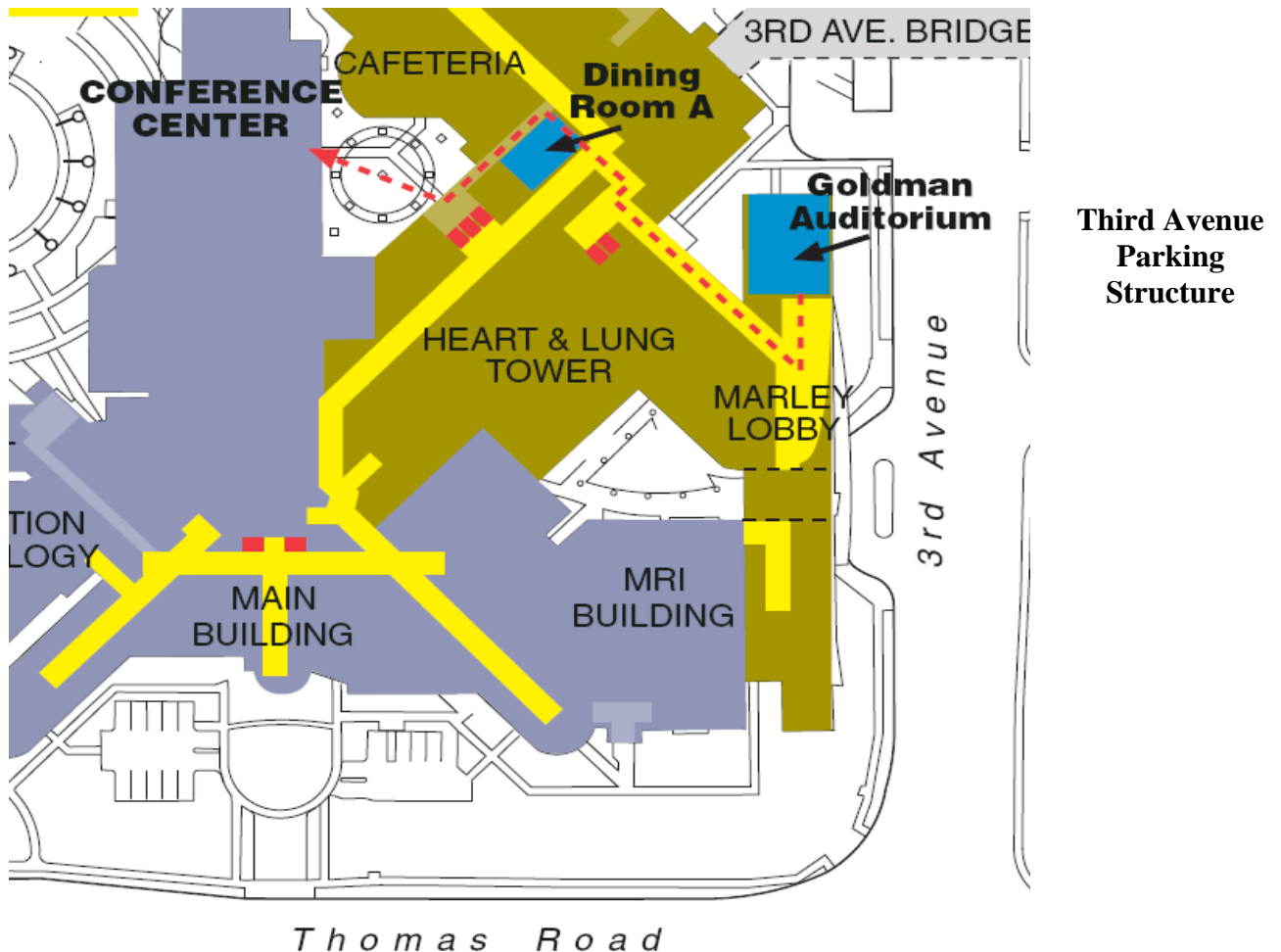


**Third Annual  
 Arizona State University & Barrow Neurological Institute  
 Neuroscience Symposium**

February 28<sup>th</sup>, 2009 at the Barrow Neurological Institute of St. Joseph's Hospital  
 350 W Thomas Road  
 Phoenix, AZ 85013  
<http://www.thebarrow.org>

<b>8<sup>30</sup></b>	<b>Breakfast and Registration</b>	Marley Lobby
<b>9<sup>50</sup></b>	<b>Introductory Remarks</b> Brian H. Smith, Professor, School of Life Sciences, Arizona State University Eric T. Vu, Staff Scientist, Division of Neurobiology, Barrow Neurological Institute	Goldman Auditorium
<b>10<sup>00</sup></b>	<b>Speaker</b> John G. Hildebrand, Ph.D., Regents Professor and Director, ARL Division of Neurobiology, University of Arizona  EXPLORATIONS OF A "SIMPLE" OLFACTORY SYSTEM	Goldman Auditorium
<b>11<sup>00</sup></b>	<b>Break</b>	Marley Lobby
<b>11<sup>10</sup></b>	<b>Concurrent Breakout Sessions:</b> <ul style="list-style-type: none"> <li>● "Translational Research in Epilepsy: Experimental and Human Studies" (David M. Treiman, M.D., BNI &amp; ASU, and Leonidas D. Iasamidis, Ph.D., ASU, Co-Chairs)</li> <li>● "Neuroethology" (Wulfila Gronenberg, Ph.D., U of A, Chair)</li> <li>● "Visuomotor processing: Mechanisms and clinical applications" (Christopher A. Buneo, Ph.D., ASU, Chair)</li> </ul>	Goldman Auditorium  Conference Rm 2  Conference Rm 4/5
<b>1<sup>00</sup> pm</b>	<b>Lunch with Posters</b>	Dining Room A
<b>1<sup>45</sup> pm</b>	<b>Posters:</b> SFN meeting posters welcome	Marley Lobby
<b>3<sup>00</sup> pm</b>	<b>Speaker</b> Mahzarin R. Banaji, Ph.D., Richard Clarke Cabot Professor of Social Ethics, Department of Psychology, Harvard University  MIND BUGS: THE SCIENCE OF ORDINARY PREJUDICE	Goldman Auditorium

**Third Annual  
Arizona State University & Barrow Neurological Institute  
Neuroscience Symposium**



**Special Thanks to Our Sponsors:**

- Barrow Neurological Foundation
- Arizona State University School of Life Sciences
- Office of the VP for Research, Graduate Studies, & Economic Development , University of Arizona
- Center for Adaptive Neural Systems of the Biodesign Institute at Arizona State University

## **Translational Research in Epilepsy: Experimental and Human Studies**

David M. Treiman, M.D., and Leonidas D. Iasemidis, Ph.D., Co-Chairs  
Goldman Auditorium  
11:10 am to 1:00 pm

### **Overview of epilepsy research at the BNI and ASU**

Co-Chairs

#### **Nonlinear dynamical analysis of the EEG in epilepsy: Seizure prediction, seizure detection, and therapeutic potential**

Shivkumar Sabesan, Ph.D.  
Harrington Department of Bioengineering  
Arizona State University

#### **VNS: Efficacy and mechanisms in chronic epilepsy in the rat**

Lucy J. Treiman, Ph.D., Psy.D.  
Division of Neurology  
Barrow Neurological Institute

#### **Hypothalamic hamartoma: A human model of epilepsy and epileptogenesis**

Jie Wu, M.D., Ph.D.  
Division of Neurology  
Barrow Neurological Institute

#### **SISCOM: Clinical applications in epilepsy and other conditions**

Katherine H. Noe, M.D., Ph.D.  
Department of Neurology  
Mayo Clinic

## **Neuroethology**

Wulfila Gronenberg, Ph.D., Chair  
Conference Center Room 3  
11:10 am to 1:00 pm

### **Carotenoids and the brain: More than just a pretty face**

Kevin J. McGraw, Ph.D.  
School of Life Sciences  
Arizona State University

### **Sensory modulation of prey capture in frogs: Alternative strategies, biomechanical trade-offs, and sensory hierarchies**

Jenna A. Monroy, Ph.D.  
Department of Biological Sciences  
Northern Arizona University

### **Dopamine in behavior and learning in the honey bee**

Julie Mustard, Ph.D.  
School of Life Sciences  
Arizona State University

### **Central brain regions and the control of advanced behavior in bees**

Wulfila Gronenberg, Ph.D.  
ARL, Division of Neurobiology  
University of Arizona

## **Visuomotor Processing: Mechanisms and Clinical Applications**

Christopher A. Buneo, Ph.D., Chair

Conference Center Room 4/5

11:10 am to 1:00 pm

### **Visuo-somatic integration in the posterior parietal cortex during the maintenance of static limb positions**

Christopher A. Buneo, Ph.D.

Harrington Department of Bioengineering

Arizona State University

### **Effects of fixational microsaccades in visual physiology, perception and cognition**

Susana Martinez-Conde, Ph.D.

Division of Neurobiology

Barrow Neurological Institute

### **Integration of visual and motor information in the motor cortex during locomotion**

Irina Bellozerova, Ph.D.

Division of Neurobiology

Barrow Neurological Institute

### **The role of vision in the learning of object manipulation**

Marco Santello, Ph.D.

Department of Kinesiology

Arizona State University

### **Towards over the counter rehab**

Kanav Kahol, Ph.D.

Department of Biomedical Informatics

Arizona State University