

*Lighting, Architecture and Human Health Workshop*

*And*

*Symposium on the Photobiology of Human Circadian,  
Neuroendocrine and Neurobehavioral Effects*

**Program**

**July 9th and 10th, 2009**

**Thomas Jefferson University  
Philadelphia, PA**



**Organizing Committee: G.C. Brainard, M.A. DellaVecchia,  
J.P. Hanifin, S. Hattar, S.W. Lockley, D.H. Sliney**

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**Abbott Medical Optics**  **Abbott**  
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**SCHEDULE**  
**July 9, 2009**

**Lighting, architecture and human health workshop**

- 9:00 *Welcome and introduction to basic photobiological concepts*  
David H. Sliney, PhD,  
President, American Society for Photobiology
- 9:20 *Introduction to non-visual photoreception and melanopsin*  
Samer Hattar, PhD,  
Department of Biology, Johns Hopkins University, Baltimore, MD
- 10:00 *Neuroendocrine responses to light in humans*  
George C. Brainard, PhD,  
Department of Neurology, Thomas Jefferson University, Philadelphia, PA
- 10:40 Coffee Break (provided)
- 11:00 *Circadian and neurobehavioral responses to light in humans*  
Steven W. Lockley, PhD,  
Division of Sleep Medicine, Harvard Medical School, Boston, MA
- 11:40 *Incorporating non-visual effects of light into architectural design*  
Marilyne Andersen, PhD,  
Department of Architecture, MIT, Cambridge, MA
- 12:20 Lunch (on own)
- 13:20 *Psychological and photobiological effects within a lighting design context*  
Craig A. Bernecker, PhD, FIESNA, LC,  
The Lighting Education Institute, Philadelphia, PA
- 14:00 *Daylighting in schools*  
Lisa Hescong, SMArchS, LC,  
Heschong Mahone Group, Inc., Fair Oaks, CA
- 14:40 Coffee Break (provided)
- 15:00 *Photobiology and architectural design*  
John P. Eberhard, FAIA,  
Academy of Neuroscience for Architecture, San Diego, CA
- 15:40 *New advances in LED lighting for application to lighting and health*  
Fred Maxik,  
Lighting Science Group Corporation, Satellite Beach, FL
- 16:20 Discussion
- 17:00 Reception (Hamilton Building, 4th Floor)

**Schedule**  
**July 10, 2009**

**The photobiology of human circadian, neuroendocrine and neurobehavioral effects of light**

- 9:00 *Welcome and introduction to basic photobiological concepts*  
David Sliney, PhD,  
President, American Society for Photobiology
- 9:20 *Electrophysiology of circadian photoreception*  
David Berson, PhD,  
Department of Neuroscience, Brown University, Providence, RI
- 10:00 *Role of melanopsin in sleep regulation*  
Samer Hattar, PhD,  
Department of Biology, Johns Hopkins University, Baltimore, MD
- 10:40 Coffee Break (provided)
- 11:00 *Melanopsin bistability in mice and men*  
Howard M. Cooper, PhD,  
Department of Chronobiology, INSERM, Lyon, France
- 11:40 *Circadian photoreception and ocular health in mammals*  
Gianluca Tosini, PhD,  
Department of Anatomy and Neurobiology, Morehouse School of Medicine, Atlanta, GA
- 12:20 Lunch (provided) - Hamilton Building, 4th Floor
- 13:00 Poster viewing
- 14:00 *Ocular physiology for human circadian phototransduction*  
George C. Brainard, PhD,  
Department of Neurology, Thomas Jefferson University, Philadelphia, PA
- 14:40 *Intensity- and duration-dependent changes in the spectral sensitivity of human circadian photoreception*  
Steven W. Lockley, PhD,  
Division of Sleep Medicine, Harvard Medical School, Boston, MA
- 15:00 Coffee Break (provided)
- 15:15 *Light as a modulator of cognitive brain function*  
Gilles Vandewalle, PhD,  
University of Montreal, Canada
- 15:55 *Circadian photoreception and ocular aging*  
Martin A. Mainster, PhD, MD, FRCOphth,  
University of Kansas Medical Center, Kansas City, KS
- 16:40 *Circadian photoreception and ocular health in humans*  
Michael A. DellaVecchia, MD, PhD, FACS,  
Wills Eye Hospital, Philadelphia, PA
- 17:20 Closing Remarks

**Location:**

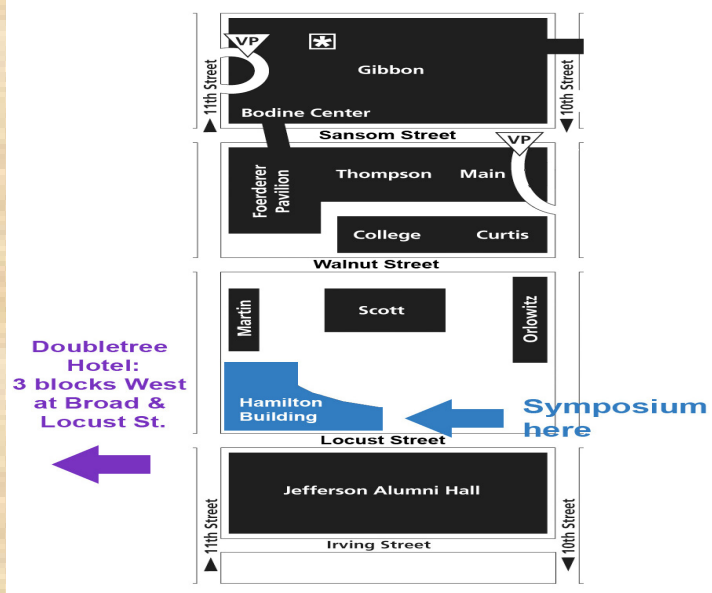
Thomas Jefferson University  
Hamilton Bldg., Room 505  
11th & Locust Streets  
Philadelphia, PA

**Date:**

July 9-10, 2009

**Time:**

9:00AM—5:00PM



**Registration:**

Non-Visual effects of light are becoming an important consideration in the practice of architecture and lighting.

*Attend this one day course by noted experts.*

Registration Information for Architect Workshop:

**Day One: \$100.00**

While you are there, plan to attend the Scientific Symposium on the following day to hear the latest research on the non-visual effects of light from leading world experts.

Separate registration applies

**Day Two: \$50.00 and \$20.00 for students and Postdocs**

Aimed at the academic community to hear the latest advances in non-visual photoreception.

**Online at: [http://www.pol-us.net/ASP\\_Home/asp\\_meet.html](http://www.pol-us.net/ASP_Home/asp_meet.html)**

On site registration can not be guaranteed available due to limited seating.

**Hotel Information:**

**Official Hotel:**

Doubletree Hotel  
Broad Street at Locust Street  
Philadelphia, PA 19107-5686  
215-893-1600

**Call and ask for the American Society for Photobiology rate of—\$119.00**

**Rate good until June 8th—make your reservations soon.**

Includes free breakfast at the Academy Café and free internet access

Hotel reservations can also be made online at:

<http://doubletree.hilton.com/en/dt/groups/personalized/PHLBLDT-ASP-20090708/index.jhtml>

*Other local hotels:*

Six preferred hotels that TJU uses located nearby. Mention that you are here on a University visit and you should receive a reduced rate.  
Holiday Inn Express, 1305 Walnut Street, Reservations: 215-735-9300 or 1-800-5MIDTOWN.  
Hilton Garden Inn, 1100 Arch Street, Reservations: 1-800-HILTONS.  
Marriott Downtown Courtyard, 21 North Juniper Street, Reservations: 215-625-6139.  
Sheraton Society Hill, Second and Walnut Streets, Reservations: 215-238-6645.  
Loews Hotel, 1200 Market Street, Reservations: 215-627-1200.