American Society for Photobiology

Thomas Jefferson University
Room: Hamilton 505
11th & Locust Street
Philadelphia, PA

Date: July 9 , 2009
Time: 8:30am—5:00pm
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Lighting, Architecture and Human Health Workshop

Light has multiple effects on human physiology, psychology, metabolism, behavior and appropriate exposure to light and dark is intrinsically linked to good health. Recently, a new photoreceptor system has been discovered in the human retina (and other mammals) that mediates a wide range of effects of light in the human body and is most sensitive to short-wavelength (blue) light. Lighting design has focused on the visual effects of light but with this recent discovery, an opportunity now exists to begin incorporating our new scientific knowledge of the 'non-visual' effects of light into architectural design in order to optimize human health in the built environment. Proper attention to these non-visual effects may allow us to improve alertness, performance, sleep, metabolic and hormonal rhythms and mood.

This workshop will focus on how lighting design may start to incorporate the newly discovered 'non-visual' photoreceptor system for health and well-being. It is aimed at the lighting design and architectural community to present the basic concepts and potential applications of non-visual photoreception.

Topics Include:

- Introduction to melanopsin and the new photoreceptor system
- Review of non-visual effects of lights in humans
- Incorporating non-visual effects of light into lighting design tools
- Potential applications of non-visual light affects in real-world environments
- Daylighting and schools
- Use of new LED technology to enhance the non-visual effects of light

Speakers Include:

- Marilyne Anderson, MIT
- Craig Bernecker, The Lighting Education Institute
- George Brainard, Thomas Jefferson University
- John Eberhard, Academy of Neuroscience for Architecture
- Samer Hattar, John Hopkins University
- Lisa Heschong, Heschong Mahone Group, Inc
- Steve Lockley, Harvard Medical School
- Fred Maxik, Lighting Science Group Corporation
- Dave Sliney, ASP President

Attend this one day course by noted experts
Registration Information for Architect Workshop:
Online registration will be available soon!
Register online or on site.
Watch for details at: www.photobiology.org

Registration Costs……..….$100.00
CEUs pending Space is limited

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

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Day Two: Registration Rate…….$50.00 Students/Fellows…….$20.00