

# 2017 Program Summary

## Light and Color with LEDs

Course #GEAIA17CL

Provider: Current, powered by GE: AIA CES # 40107434  
Length: 1 hour  
Credit: 1 AIA CES LU / HSW

### Course Description

Our eyes can play tricks on us when it comes to color and how the eyes adapt. Lighting designs are affected, positively and negatively, by this. Understanding basic vision science, and how the eye perceives colors of objects and the environment, are important elements in design considerations. Comprehending color metrics that are used with conventional and LED sources will allow for a more thoughtful technical and artistic approach to the design.

### Learning Objectives

1. Understand the basics of vision science, and how we see color in our environment.
2. Describe current color metrics and terms such as: CRI and evolving color scales, Correlated Color Temperature, and trichromatic theory.
3. Describe how lighting affects how we perceive the color of objects and the environment, and the tradeoffs between color rendering and efficacy.
4. Understand these effects when designing lighting solutions, using conventional and/or LED sources

### Target Audience

Architects, Interior Designers, Lighting Designers, Consulting Engineers. Owners with color critical application & task requirements.

### Session Format

The PowerPoint presentation is approximately 60 minutes in length, including 15 minutes allotted for questions. The format follows AIA CES guidelines

### Session Speakers

Speakers have been trained on AIA CES guidelines and the presentation material by the GE Institute. Speakers have completed and signed an AIA CES Presenter Quality Commitment Statement form. To continue to improve the quality of GE Lighting's AIA CES programs, the speakers are required to distribute evaluation forms to participants for voluntary input.

*For more information, contact:*  
Current, powered by GE  
The Institute  
1975 Noble Rd  
E Cleveland, OH 44112  
Phone: 800-255-1200  
Email: [Current.AIAcourses@GE.com](mailto:Current.AIAcourses@GE.com)

