2023-2024 Section Meetings

10/19/2023

Past Presidents Night with Lighting for Circadian Health; Seeing the Light in a Non-Visual World (AIA Registered)

Topic
There are a variety of differences in lighting solutions for visual impact versus nonvisual impact, in the design space. This presentation will compare the WELL building standard and LRC circadian stimulus as it is related to typical lighting design applications. Lighting for optimized health and wellbeing versus energy efficiency will be discussed as well as possible trends in dynamic lighting.

HSW Justification
It is well known in the design industry that light affects human health and wellbeing. As practitioners and specifiers continue to incorporate methods that address the objectives of healthier illuminated environments, it is important they have a basic understanding of the most commonly agreed upon methods and practices for circadian and non visual lighting.

Learning Objectives

- Examine the varieties and differences of lighting solutions designed for visual versus non-visual impact
- Compare and contrast the WELL building standard and LRC circadian stimulus as it relates to typical lighting design scenarios
- Explore the potential conflicts between lighting designs optimized for health and well-being, versus optimal energy efficiency
- Identify likely trends and future possibilities surrounding dynamic lighting solutions

Presenter
Eric Haugaard currently holds a position in National Business Development with Cooper Lighting Solutions. Prior to joining Cooper, Eric was the Director of Development Engineering and Program Management with Cree Lighting along with a previous role as Director of Product Technology. His career of 36 years includes a variety of positions, primarily focused on advanced lighting systems development. Eric holds a Bachelor of Science degree in Mechanical Engineering, with Post-Baccalaureate Program studies completed at NASA/Ames Research Center. He holds 64 US and foreign patents related to lighting technology.

11/16/2023

Putting Innovation to the Test: Advanced Lighting Strategies for Tomorrow's Health-Focused Workplace

Overview
As we emerge from the recent health crisis and into the next phase of workplace design, the well-being of building occupants as well as what may drive them to the office is at the forefront of many owners' priorities. However, many untested technology claims and bleeding-edge strategies are on the market today. To ensure the selected concepts and strategies are legitimate and support the programmatic goals of a project, many designers are turning to evidence-based research.

The design team at IMEG looked to do the same. They put innovation to the test and created their own body of evidence-based research. The designers identified several advanced lighting strategies and technologies that support well-being in the workplace, applied them to their office design, and are working with a national laboratory to study the results. These strategies include tunable lighting for circadian support; glare reduction; biophilic design through a fractal experience; enhanced perception of safety/security within the IECC 2018 open office control requirements; improved acoustic integration; and establishing a hospitality supported workplace.
This presentation will illustrate each strategy, explore the implementation of each option through a multi-stop guided tour. Presenters will also share tips and tricks related to each strategy to support your next project.

Presenter
Shanna L. Olson, LC, MIES Architectural Lighting Leader from IMEG

1/11/2024

Description

IES Milwaukee Annual After Holiday Party

2/15/2024

Living Wall Lighting

Overview
Learning Units: 1 AIA/CES HSW/SD Learning Unit
Qualifies for Health Safety Welfare and Sustainable Design Credits

- Needs of plants in the built environment
- How lighting impacts plant sustainability
- Selecting the appropriate lighting for your application
- Design and calculate proper lighting solutions for ornamental plant life

Presenter
Marc Jorgensen - Mid West Sales Director - LEDRAbrands

MidWest Region Sales Director for LEDRAbrands- Alphabet and Bruck Lighting. Marc is a Lighting Professional with 20+ years of expertise in lighting. His extensive knowledge of lighting technology and application provide a unique perspective on the development and integration of quality LED lighting technology into today's rapidly advancing design environment.

3/14/2024

Sustainable Lighting

Overview
Learning Units: 1 Credit for AIA, FBPE and IDCEC
A review of the environmental impact of light sources, luminaires, and the use of lighting products over time.

Objectives
- Explain the percent energy impact of lighting versus total energy use for buildings.
- List six LEED categories that can earn points due to lighting improvements.
- Explain Life Cycle Assessment.
- Describe the difference in sustainable impact of making a luminaire and using a luminaire over its entire life.

Presenter
Ryan Radke, Director of Sales, a·light, Acuity Brands Lighting, Inc.

4/18/2024

Description:

IA Awards

5/18/2024

Let's Do the Time Warp Again – Oriental Theater Relighting

Tour The Oriental Theatre
The project, Let's Do the Time Warp Again – Oriental Theater Relighting, won a national Award of Merit in the 2023 IES Illumination Awards. The tour will include review of lighting and controls design for the renovation of this national historic landmark. We'll get a behind-the-scenes look at some of the project challenges and solutions.

Presenter
Holly Blomquist - Ring & DuChateau

10/17/2024

Past Presidents Night: **Why Best Practice may not be Enough**

Topic
As IES professionals you are acutely aware that outdoor lighting is a necessity for humans but that it also needs to be done in a way that minimizes potential negative impacts. If you perform your work under the impression that using full cutoff, 3000K fixtures is the best way to be a responsible designer this presentation may offer some surprising information.

Studies using ground-based analysis show that night sky brightness has increased nearly 10% each year for the past decade. An increase much higher than that measured by satellites. A study by the National Park Service in Chelan County in Washington State helps explain why that's true. Ground-based measurements taken over a three-year period in Vernon County Wisconsin before and after street light replacements confirm that locally this increase is almost certainly due to the replacement of HPS sources with blue-rich LED lighting.

Learning Objectives

- Understand the impact of even low CCT LED sources on sky brightness and why it matters.
- Learn about the linear relationship between S/P ratio and relative sky glow.
- Learn about initiatives by the DesignLights Consortium to address sky brightness impacts through the LUNA QPL.
- Learn about expanded product lines that open up possibilities to apply lower CCT products.
- Learn about new chip designs that could lead to lower sky brightness impacts.

Presenter
Scott Lind from the Kickapoo Valley Dark Sky Initiative is a Wisconsin licensed professional electrical engineer and master electrician who has worked for 35 years on a wide variety of power and lighting projects. He does not claim to be a lighting designer and prefers to call himself a "power guy" but cares deeply about the impacts artificial light at night has on the environment.

Kickapoo Valley Dark Sky Initiative is a conservation initiative focused on providing education and resources for individuals, businesses, and communities to prevent light pollution and protect dark skies in the Kickapoo Valley, and beyond.

11/07/2024

Trade Show

CEU Course - Lighting Spaces with Cameras

Overview
With the growing demands for businesses and worship spaces to produce video content, the need for camera lighting in small studios, sanctuaries, and auditoriums has never been greater. This course will illustrate the fundamentals of lighting people for camera and will discuss how to approach designing lighting systems for venues that use cameras. With the proliferation of LED technology and cost-effective digital cameras, there are many aspects that need to be considered which are not typical to other lighting applications. This course will give great insight into these topics and help prepare to make the right lighting decisions for these types of projects.

Presenter
David Hilton is the Senior US Sales Manager for ETC, supervising the entertainment, architectural, commercial, and rigging sales teams in the Americas. He joined the company in 2007, working for ten years out of ETC's Hollywood office as a Field Project Coordinator then Associate Regional Manager. In 2017, he relocated to Wisconsin to serve as the Product Marketing Manager, supervising the product management team that is responsible for curating ETC's current portfolio as well as developing new and exciting products for the future. Previous to ETC, he worked as a freelance lighting designer & director as well as an electrician in the Los Angeles market. He is an alumni of the University of Southern California's School of Dramatic Arts.

CEU Course - How to evaluate the sustainability of architectural products:

Overview
This course helps designers cut through the noise and focus on two key frameworks for evaluating architectural product sustainability. First, the International Living Future Institute has provided a framework for evaluating the toxicity of products with its Declare Label. Second, Environmental Product Declarations have become the gold standard in measuring the carbon footprint of products. Attendees will learn how leverage these frameworks to design healthier and more environmentally friendly spaces.

Learning Objectives

- Understand which chemicals and materials are classified as toxic by the International Living Future Institute
- Understand the significance of embodied carbon in our built environment
- Learn how to read and interpret a Declare Label from the International Living Future Institute
- Learn how to read and interpret a Life-Cycle-Analysis (LCA) as part of an Environmental Product Declaration (EPD)
- Learn how to detoxify and decarbonize specifications

Presenter
Brian Treston, Lightly, Regional Sales Manager

12/12/2024

Lighting Commissioning

Overview
A long time ago in a galaxy far, far away, DG-29, the standard for commissioning of lighting, was created. Time has passed, the industry has matured, and technology has advanced to the point that this standard required a major update both in content and name. When released, it will become ANSI/IES LP-8, the Standard for Commissioning for Lighting and Lighting Control Systems. This document is a resource not only for commissioning providers, but also for the commissioning team (e.g., owners, architects, designers, engineers, contractors, distributors).

Master Yoda didn't become a Jedi overnight – it was a process of mind and body training. Similarly, commissioning is a systematic process (a series of discreet activities) that seeks to enhance delivery of a project. It focuses on verifying and documenting that all the commissioned systems and assemblies are planned, designed, installed, tested, operated, and maintained to meet the Owner's Project Requirements (OPR). Commissioning starts in the predesign phase, continues into occupancy, and throughout the building's lifetime. COMMISSIONING IS NOT STARTUP. Come to this presentation to glean insights into best practices for commissioning, but also your design.

Learning Objectives
After this presentation, attendees will be able to:

- Define commissioning and the difference between commissioning and startup.
- Compare LP-8 with standard commissioning practices defined by ASHRAE, BCxA, and others.
- Use LP-8 to better define the commissioning scope of services and value offered to building owners and operators.
- Use LP-8 to improve lighting and control system performance in new and existing buildings by better preventing, identifying, and resolving operational issues.

Presenter
Lyn Gomes, MEP coordinator for DPR Construction, has 25 years of experience and expertise in HVAC, controls, integration, commissioning, and is a nationally recognized expert in lighting control systems. She is the chair for ANSI/IES LP-8, the Standard for Commissioning for Lighting and Lighting Control Systems. She also co-created the framework and was vice-chair for LP-16 (Sequences of Operation for Lighting Control Systems) with Rick Miller. She is the president of the Building Commissioning Association for 2025. She graduated with a degree in Mechanical Engineering from Cal Poly, San Luis Obispo.

Credit
This presentation qualifies for one credit hour for AIA / CEU / PDH / IES LU.