SSL Postings
U.S. DEPARTMENT OF ENERGY

August 30, 2016

Webinar Series on Healthcare Lighting

DOE is offering a series of three webinars on healthcare lighting that will feature diverse perspectives and new insights on this cutting-edge topic. All of the webinars will start at 1:00 p.m. Eastern Time and last for 60 minutes.

Tuesday, September 13: The Nurses' Perspective on Hospital Patient Room Lighting
Presenters: Pat Lydon, Legacy Health, Robert Davis and Andrea Wilkerson, Pacific Northwest National Laboratory
SSL technology provides new opportunities for addressing a holistic set of goals for healthcare lighting. This webinar provides an overview of these goals, and then shares the insights from 252 nurses who voluntarily answered a 17-question patient-room lighting survey. The nurses worked in a newly constructed children's hospital, an older hospital with some renovated patient rooms, and two older hospitals (one urban and one suburban). Nurses' concerns were primarily related to light level and controls, which should remain major considerations when designing the next generation of patient-room lighting systems. The presenters will analyze how the varying demographic of the nurses affected their responses, identify the attributes of the patient-room lighting systems that led to the most frequent comments, compare the similarities and differences in responses between nurses in different patient room types, and describe how patient-room lighting systems can be improved to provide a better environment for nurses to care for patients.
For more information or to register

Tuesday, October 4: Evidence-Based Design for Healthcare Lighting: Where's the Evidence?
Presenters: Anjali Joseph, Clemson University, Robert Davis and Andrea Wilkerson, Pacific Northwest National Laboratory
The nonvisual effects of light have captured a lot of interest lately, as important new research on the topic emerges. But beyond the nonvisual effects of light, architectural lighting supports other important outcomes for caregivers and patients, addressing visual task needs and providing for overall comfort and wellbeing. This webinar will present results from a major literature review summarizing published evidence for the benefits of high-quality healthcare lighting reported in recent research. It will also discuss how future research can provide even stronger evidence to link the design of healthcare facilities to a holistic set of human needs. The presenters will describe the major findings from recent research related to lighting for healthcare applications, explain how research methodology can be improved for future application to healthcare design, evaluate how the principles derived from recent research can be applied to an evidence-based design process that addresses a holistic set of visual and nonvisual human needs, and compare the benefits and drawbacks of emerging

SSL technologies for addressing the needs of patients and caregivers in healthcare applications. For more information or to register

Tuesday, October 18: Tuning the Light in Senior Care
Presenters: Connie Samla, Sacramento Municipal Utility District, Robert Davis and Andrea Wilkerson, Pacific Northwest National Laboratory
DOE collaborated with the Sacramento (CA) Municipal Utility District (SMUD) and the ACC Care Center in Sacramento to evaluate a trial installation of LED lighting systems, in preparation for a planned expansion and renovation at ACC. New LED lighting systems, including white-tunable luminaires and amber night lighting, were installed in two patient rooms, a central nurse station, corridor, family room, and administrative office. The systems were compared to the existing fluorescent systems in terms of their photometric performance and estimated energy use, and the ACC staff tracked behavioral and health measures before and after the installation. This webinar will share the results of the initial pilot study and how this has affected ACC's future plans. The presenters will evaluate the results of the trial lighting systems (including energy, photometry, patient behavioral measures, and feedback from patients and caregivers), analyze several techniques for implementing amber LED lighting for nighttime navigation, describe the control scripts used for tuning the LED lighting spectrum and output based on the desired sleep cycle effects at different times of the day, and explain the challenges faced when installing these solutions in existing buildings.
For more information or to register

These webinars will be instructive and informative. Join us for as many of them as your schedule allows.

Best regards,
Jim Brodrick

As always, if you have questions or comments, you can reach us at postings@akoyaonline.com.