

U.S. Department of Energy Solid-State Lighting Booth #2010 Sessions

LIGHTFAIR International 2016

April 26–28, 2016 • San Diego Convention Center

TUESDAY, APRIL 26, 2016

10:00 a.m.–Noon	<p>The Lowdown on TLEDs <i>Jeff McCullough, Pacific Northwest National Laboratory</i> <i>Tracy Beeson, Pacific Northwest National Laboratory</i> <i>Naomi Miller, Pacific Northwest National Laboratory</i></p> <p>Get an unvarnished look at the current state-of-the-shelf in TLEDs, and lessons learned from DOE studies—plus a hands-on look under the hood at the wiring and physical attributes of Type A/B/C TLEDs. Stick around for a follow-on discussion with representatives from utilities, UL, specifiers, and manufacturers who will explore technology issues and questions that need answers.</p>
1:00–2:30 p.m.	<p>Next Generation Luminaires™ Awards Presentation <i>Ruth Taylor, Pacific Northwest National Laboratory</i></p> <p>Join DOE, IES, and IALD for the presentation of the 2016 NGL awards, recognizing the best-of-the-best indoor and outdoor LED lighting products.</p>
2:30–4:00 p.m.	<p>Tools for Specifiers <i>Ruth Taylor, Pacific Northwest National Laboratory</i> <i>Marci Sanders, D&R International</i></p> <p>Learn about the latest improvements to the LED Lighting Facts® database, including tools for lighting specifiers to improve usability and help them sort through product information to evaluate and compare products for specification packages. Hear from specifiers and DOE’s own Next Generation Luminaires competition about how they can utilize the database to synthesize and assess valuable data and information on TM-30, lumen maintenance, controls, optics, and more—to enable the extensive review and evaluation of selected product designs.</p>

WEDNESDAY, APRIL 27, 2016

10:00 a.m.–Noon	<p>10 Things You Need to Know About Connected Lighting Systems <i>Michael Poplawski, Pacific Northwest National Laboratory</i> <i>Ruth Taylor, Pacific Northwest National Laboratory</i></p> <p>An introduction to connected lighting for those new to the topic. What is a walled garden? LiFi, API, POE, IoT—where does DOE fit into the mix? Join us for an interactive discussion on how connected lighting differs from traditional lighting control, what the implications are for energy consumption, and what is needed to accelerate connected lighting technology developments. What did NGL judges learn about configuration complexity during evaluation of this year’s entries? How can test beds make a difference? What else is needed?</p>
-----------------	---

1:00–2:30 p.m.	<p>Color-Tunable LED Products: What You Need to Know <i>Naomi Miller, Pacific Northwest National Laboratory</i></p> <p>Join DOE, specifiers, test labs, and manufacturers for a frank discussion about specifying, controlling, and testing today’s LED color-tunable products. How are these products being used, and controlled? What information is missing in order for products to be specified, installed, and used properly? What should DOE study in the next phase of testing? What are test labs learning about testing color-tunable products?</p>
2:30–4:00 p.m.	<p>Color Quality: TM-30, Color Preference, and More <i>Michael Royer, Pacific Northwest National Laboratory</i> <i>Andrea Wilkerson, Pacific Northwest National Laboratory</i></p> <p>This session will focus on the interpretation of TM-30 measures for evaluating color rendering, with additional emphasis on demonstrating how preferred color rendering attributes change with context. Bring your questions!</p>

THURSDAY, APRIL 28, 2016

10:00 a.m.	<p>Real-World Studies: OLEDs in the Office <i>Naomi Miller, Pacific Northwest National Laboratory</i> <i>Leslie North, Aurora Lighting Design</i></p> <p>An overview of OLED product capabilities, challenges, and potential plus a preview of results from DOE’s first GATEWAY study of an OLED office lighting design.</p>
10:30 a.m.	<p>Real-World Studies: LEDs in Healthcare <i>Andrea Wilkerson, Pacific Northwest National Laboratory</i> <i>Bob Davis, Pacific Northwest National Laboratory</i></p> <p>Hear the responses of 252 nurses to a 17-question patient room lighting survey conducted at four hospitals. The top takeaways will be discussed in conjunction with results from a DOE GATEWAY and SMUD demonstration of LED lighting installed in two patient rooms at a senior care facility.</p>
11:00 a.m.	<p>Real-World Studies: Measuring LEDs in Yuma <i>Andrea Wilkerson, Pacific Northwest National Laboratory</i> <i>Bob Davis, Pacific Northwest National Laboratory</i></p> <p>Learn the latest from DOE’s long-term monitoring of LED luminaires installed near Yuma, AZ, including a discussion of the unexpected changes in measured illuminance over a period of 7,000 hours of operation. Thermocouples installed inside two luminaires are telling the minute-by-minute temperature story from inside the luminaire.</p>