

**2016 U.S. DEPARTMENT OF ENERGY
CONNECTED LIGHTING SYSTEMS WORKSHOP AGENDA**

June 8–9, 2016 • Hyatt Regency Santa Clara • Santa Clara, CA

WEDNESDAY, JUNE 8

7:00 a.m. *Registration Opens and Continental Breakfast*

MORNING PRE-WORKSHOP SESSIONS

8:00 a.m. **Welcome**

8:05 a.m. **Communications Fundamentals**

A crash course on network communication basics, for those new to the topic.

MODERATOR: KARSTEN KELLY, PACIFIC NORTHWEST NATIONAL LABORATORY

MICHAL KOENIG, QUALCOMM

SHANE DEWING, INTEL

HIMANSHU MEHRA, CISCO SYSTEMS

10:00 a.m. *Refreshment Break*

10:30 a.m. **Cybersecurity Fundamentals**

An overview of data security needs and best practices, for those new to the topic.

MODERATOR: MONICA HANSEN, LED LIGHTING ADVISORS

PRASAD JOGALEKAR, ERICSSON

KEN MODESTE, UL

Noon *Lunch*

AFTERNOON SESSIONS

1:00 p.m. **Workshop Introduction**

JAMES BRODRICK, U.S. DEPARTMENT OF ENERGY

1:15 p.m. **Opening Remarks: Connections—The Role of Architecture, Standards, Partners, and Competition in Connected Lighting**

TANUJ MOHAN, ENLIGHTED

2:00 p.m. **Leading-Edge Indoor Installations**

What can we learn from innovative installations that demonstrate improved lighting performance as well as other benefits that impact the business case?

MODERATOR: MARK LIEN, ILLUMINATING ENGINEERING SOCIETY

CODY CRAWFORD, VULCAN

KENNY SEETON, CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS

3:00 p.m. *Refreshment Break*

3:30 p.m. Leading-Edge Outdoor Installations

What can we learn from innovative installations that demonstrate improved lighting performance as well as other benefits that impact the business case?

MODERATOR: KELLY GORDON, PACIFIC NORTHWEST NATIONAL LABORATORY

GEORGE DENISE, ORACLE

RICHARD WEBSTER, SUFFOLK COUNTY COUNCIL, UNITED KINGDOM

4:30 p.m. How Can Test Beds Accelerate Connected Lighting System Development?

Examples of how test beds enable small-scale demonstrations to assess various connected lighting capabilities and system implementations, highlighting what is possible as well as identifying and accelerating needed improvements.

MODERATOR/SPEAKER: MICHAEL POPLAWSKI, PACIFIC NORTHWEST NATIONAL LABORATORY

RAFAEL REYES, PROSPECT SILICON VALLEY

*5:30–7:00
p.m.*

Networking Event Courtesy of the Next Generation Lighting Industry Alliance

THURSDAY, JUNE 9

7:00 a.m. Continental Breakfast

MORNING SESSIONS**8:00 a.m. How Should Connected Lighting Systems Be Integrated Into the IoT?**

A look at the convergence of application and technology, with an eye toward where, when, and how this will happen.

MODERATOR: JAMES BRODRICK, U.S. DEPARTMENT OF ENERGY

BRIAN CHEMEL, DIGITAL LUMENS

SAMEER SHARMA, INTEL

9:30 a.m. Refreshment Break

10:00 a.m. How Can Energy Reporting Accelerate Connected Lighting System Deployment?

Hear varied perspectives on why and how the self-reporting of energy data from connected lighting systems can improve the bottom line for multiple industry stakeholders.

MODERATOR: MARC LEDBETTER, PACIFIC NORTHWEST NATIONAL LABORATORY

JOHN SCOTT, COLLIERS INTERNATIONAL

RUSS ABBER, EMILYGRENE

JEFF HARRIS, ALLIANCE TO SAVE ENERGY

11:30 a.m. Lunch

AFTERNOON SESSIONS

- 12:30 p.m. **Why Does Application Level Interoperability Hold the Key to Broad Connected Lighting System Deployment?**
Examine the path toward greater interoperability using examples from other technologies and industries, and learn more about when and how various types of convergence open the door to broader deployment.
MODERATOR: MICHAEL POPLAWSKI, PACIFIC NORTHWEST NATIONAL LABORATORY
RUSS SHARER, FULHAM
SEAN TIPPETT, SILVER SPRING NETWORKS
TOM HERBST, CISCO SYSTEMS
- 2:00 p.m. **What Technologies Can Reduce Connected Lighting System Configuration Complexity?**
Hear explanations of how multiple emerging technologies can reduce configuration complexity and thereby improve the initial and ongoing performance of connected lighting installations.
MODERATOR: NAOMI MILLER, PACIFIC NORTHWEST NATIONAL LABORATORY
GARY TROTT, CREE
NEIL JOSEPH, STACK LABS
CHARLIE HUIZENGA, ACUITY BRANDS
- 3:30 p.m. *Refreshment Break*
- 4:00 p.m. **How Does the IoT Need to Be Architected in Order to Deliver on Its Potential?**
How do you effectively connect thousands of nodes in a single site—or hundreds of sites—in a way that allows for multi-tenancy? Hear multiple architecture proposals from varied industry stakeholders.
MODERATOR: RICHARD WEBSTER, SUFFOLK COUNTY COUNCIL, UNITED KINGDOM
RON VICTOR, IoTIUM
KEITH DAY, TELENSA
- 5:30 p.m. *Adjourn*