Remember, the Boston workshop is less than a month away. If you have not registered yet, please be sure to do so. Consortium workshops are an essential element of how we share knowledge and learn from one another’s experiences. We hope to see you in Boston. Click here for registration information.

June was a busy and productive month for the Consortium. Ed Ebrahimian of the Los Angeles Bureau of Street Lighting and I attended the U.S. Conference of Mayors (USCM) 80th Annual Meeting in Orlando where we addressed the Energy Independence and Jobs Task Force to discuss the benefits of LED street lighting. Most importantly though, the USCM voted in favor of approving a resolution supporting the nation-wide use of LED street lighting technology. It was an honor to address this body and we are grateful that they have identified the benefits of LED street lighting and how implementation can assist cities’ efforts to create efficiencies.

The American Public Power Association (APPA) held their 2012 National Conference in Seattle, June 17-20. The Consortium hosted a booth at the Expo and I gave a presentation on the City of Seattle’s experience with LED street lighting along with a discussion of benefits and challenges. After the presentation, I was briefly interviewed by APPA staff for the “Public Power TV” portion of their website. You can see the interview by clicking here. At the Consortium booth, we had several great discussions with public power representatives from all over the country. These are great opportunities to share experiences and learn from one another—that is what this organization is all about!

The Consortium’s Technical Committee, Chaired by Cleveland Public Power’s Ivan Henderson conducted a great meeting in San Jose, California, June 20-21. Topics of discussion included development of subcommittee and taskforce assignments, developing goals for the streetlight dimming task force, and the development of a national street lighting inventory.

Kind Regards.

Edward Smalley
Director, Municipal Solid-State Street Lighting Consortium

U.S. Conference of Mayors Adopts Resolution Supporting LED Street Lighting

In the June issue of THE LIGHT POST, we told you about the proposed U.S. Conference of Mayors Resolution endorsing the work of The Consortium and nation-wide use of LED street lighting. Great news! On Saturday, June 16, the USCM adopted the resolution. The complete resolution can be found by clicking here. Thank you to the entire cadre of Mayors who believe in LED street lighting technology and signed on as a sponsor or co-sponsor. With more and more cities and towns implementing LED street lighting, the benefits are becoming clear. We look forward to seeing these savings translate into improved quality of life for citizens across the country.
lighting projects and support from organizations like the USCM, it is clear that adoption of LED street lighting is gaining steam. In future months, the Consortium will be looking for more ways to partner with the USCM and other like organizations in continuing to highlight LED streetlights for roadways across the US.

Pictured left to right: LA Bureau of Street Lighting Director, Ed Ebrahimian; Consortium Director, Edward Smalley; Seattle Mayor, Mike McGinn; Carmel Indiana Mayor, Jim Brainard; USDOE Better Buildings Challenge Director, Maria Vargas; Bridgeport, Connecticut Mayor, Bill Finch; Des Moines, Iowa Mayor T.M. Franklin Cownie

Featured Case Study: UC Davis

The University of California, Davis (UC Davis) recently completed an exterior networked LED project as part of the institution’s Smart Lighting Initiative (SLI). The SLI was established to reduce campus electrical consumption by 30 million kWh by 2015 and save the university $100,000 annually on electricity costs through lighting retrofits. The central focus of the networked exterior component of the SLI program is on area lighting and street lighting with an emphasis on adaptive controls, or smart lighting. This is cutting edge!

Specifically, the project wirelessly connects more than 1,600 LED lights along walking paths and roadways to a main control area. Lights that once operated in isolation now talk to each other as part of a seamless web. With this and other exterior lighting projects 80 percent complete, the energy required to light outside spaces is 58 percent less than it was five years ago. All while the university has added buildings, students, faculty and staff. The completed project is expected to save more than 1 million kWh annually. This is enough energy saved to offset the annual greenhouse gas emissions of 135 motor vehicles.
The SLI is funded in part by The California Statewide Energy Partnership Program, with the balance being paid off via annual energy savings. The projects are based on innovations developed or refined by the University’s California Lighting Technology Center. The networked exterior portion of the project comes at a cost of $950,000 and the estimated payback for both the indoor and outdoor portions of the project is nine years.

For a little more on the UC Davis project, click here to view a short feature on YouTube.

Technical Committee Pursues Street Lighting Inventory Project

As mentioned above, The Consortium’s Technical Committee took advantage of its members being on the west coast and conducted an in-person meeting on June 21-22 in San Jose, CA. Hats off to Chair Ivan Henderson and his members for pulling off this logistically difficult meeting!

The agenda included discussions on the development of a mission statement; goals and objectives for subcommittees and taskforces; technical discussions on streetlight dimming technology and development of a scope of work regarding maintenance updates to the Consortium’s Model Specification (subcommittee); development of an equivalency calculator; an end-of-life determination regarding lumen maintenance; and the Case Studies and Guidelines for LED Tariff taskforces.

Perhaps the most ambitious and exciting agenda item was the discussion surrounding the launch of a national streetlight inventory project. Many elements of our country’s infrastructure are identified and catalogued in order to stay apprised of maintenance and conditions. However, one of our most essential (and underappreciated until darkness sets in) pieces of infrastructure, street lighting, goes largely undocumented on a national level. Here at The Consortium we are eager to get this process underway. While development of a national inventory is a significant undertaking, we are confident we can achieve success by taking small steps along the way to the ultimate goal of comprehensive street lighting information. When complete, this information will help assist policy makers as they weigh the costs and benefits of implementing their own LED street lighting programs.

Call for Entries: Next Generation Luminaires (NGL) Outdoor Design Competition

New Streetlights announced the launch of the 2012 Next Generation Luminaires (NGL) Outdoor Design Competition on June 18. Along with NGL, the competition is brought to you by the Illuminating Engineering Society, the International Association of Lighting Designers and our own Pacific Northwest National Laboratories on behalf of the US Department of Energy.
The competition began in 2008 to address market concerns of LED lighting performance and quality. The goal is to recognize the most exceptionally designed commercial LED lighting with the thought of making it easier to identify LED products that can best stand up to consistent end use.

This year, a specific category for street and roadway lighting has been added to the competition. The subcategories include: pole mounted roadway luminaires (major roadways), pole-mounted street lighting luminaires (collector roads), pole-mounted street lighting luminaires (local residential roads), and pole-mounted decorative street lighting luminaires (streetscape).*

To rate the entries, judges (made up of lighting industry professionals) evaluate sample fixtures in their intended applications. Included in the evaluation criteria are: color quality, appropriate illuminance, light distribution, BUG ratings, luminance and glare control, serviceability and replacement, energy efficiency, power quality, lumen maintenance, controllability, value, appearance and style.*

Those interested in entering, must provide an intent to submit form by Aug. 3, 2012. Online submission must be completed by Aug. 31, 2012 with the physical unit of entry due by Sept. 7, 2012. More information about NGL and contest entry can be found by clicking here.

*www.newstreetlights.com/index_files_LED_street_light_news_NGL_award_program_476.htm

Caltrans to Purchase 42,000 Roadway LEDs
The City of Los Angeles has been viewed as a leader when it comes to installation of LED street lighting. Now, The California Department of Transportation (Caltrans) has issued an Invitation for Bid (IFB) to purchase 42,000 roadway LEDs. California plans to install the fixtures in four phases along their highways. This is the first phase in the goal of converting all state highways with LED fixtures.

“For the first phase of the installation, the LED luminaires used in Roadway 1 application will replace 200 watt HPS street lights. In the Roadway 2 application, the LED luminaires will replace 310 watt HPS street lights.”*

*www.newstreetlights.com/index_files/LED_street_light_news_Caltrans_Seeks_bids_479.htm

Register Now: Boston LED Street Lighting Workshop August 2–3
Please join us in Boston for the next Consortium LED Workshop coming up on Aug. 2–3. The workshop will be held at the John W. McCormack Courthouse and Post Office Building with lodging accommodations at the Langham, Boston Hotel. Click the following link for registration and program information:

As usual, consultants and designers are especially welcome to attend.

Please contact us at MSSLC@seattle.gov if you have any questions.