



fall 2011

### In this issue...

- What's up with EISA?
- Fall Education Series – class schedule
- Staff Changes @ LDL
- Will LEDs replace T8s?

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Make sure we have your correct email address.

Sign up on our website at [www.lightingdesignlab.com](http://www.lightingdesignlab.com)

We do not share our mailing list and we promise no spam!

### Save the date

The Lab's annual  
Open House  
will be on Thursday,  
December 8, 2011.



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## How Can I Miss You if You Won't Go Away?

### The Truth about EISA 2007

by Eric Strandberg, LC

There have been many misleading headlines lately about the incandescent lamp. They all declare that the incandescent lamp is going away.

For good or ill, **this is not the case**. There is even confusion in the lighting

community about this issue. It is true that the most inefficient incandescent lamps will shuffle off this mortal coil, but there will still be many of the beloved (or maligned), tungsten filaments available for ambient and accent lighting. The Energy Independence and Security Act of 2007 (EISA)\* requires new incandescent lamps meet a lumen-per-watt (L/W) standard that is higher than most current incandescent products, but there are many incandescent products that do meet EISA standards, such as:

- Sylvania Halogen SS 72watt A17
- Philips Ecovantage 72watt A19
- Sylvania Halogen SS 50watt BR30
- GE HIR Compact 50watt PAR30

These tungsten halogen IR lamps are both omni-directional (for general lighting) and directional (for accent lighting). They deliver light that's good as or better than the incandescent lamps that are going away. They are also a bit more efficient, are dimmable, low cost, and usually last longer.

And if you are looking for real energy and cost savings, CFL products are much improved and less expensive than ever. Of course, LED products are improving by leaps and bounds, so stay tuned.

What about old T12 fluorescent lamps? Aren't they disappearing too? Not necessarily. As with incandescents, if a T12 meets a L/W minimum, it will be allowed. (Although at this point, very few T12 products meet it.) So unless manufacturers retool to improve an increasingly obsolete lamp type, T12s will be harder to get and more expensive. Also, keep in mind that only magnetically-ballasted T12s have been phased out. Electronically-ballasted T12s are still available. Even some less efficient T8 lamps such as the "700" series will not meet the standards. So is it a good time to retrofit? Yes! And will T12s be unavailable? Maybe not.

\*Google 'EISA 2007' to read the full text on the web.

Photo courtesy of OSRAM Sylvania



# Fall 2011 Education Series

To register, please visit [www.lightingdesignlab.com](http://www.lightingdesignlab.com). For assistance or special requests, please contact Anne Ducey at 206-325-9711, ext. 129 or [anne@lightingdesignlab.com](mailto:anne@lightingdesignlab.com).

## **Morning Class, 10:00 am — 12:00 pm** (lunch included with registration)

### ***What's New in Lighting for 2011***

***Instr.: Andrew Pultorak, LC, MIES***

The fall tradition continues of reviewing this year's latest innovations in exterior and interior lighting luminaires, lamps, ballasts, publications, controls and components. Also included in this class will be award winning products recognized throughout the industry.

This class is intended for those already familiar with basic lighting technology (i.e., CRI, CCT, L/W LED, OLED, etc.) but can be of interest to those just entering the lighting industry as well.

## **Afternoon Class, 1:00 pm — 3:00 pm** (lunch included with registration)

### ***Matching Technologies to Applications***

***Instr.: Jeff Robbins, LC, MIES***

Whether new construction, a major renovation, or a simple retro-fit, the challenge is to develop a lighting scheme which takes into consideration the condition of the existing space, the tasks being performed, energy codes and lower power consumption. In addition, the effects of coming legislation must also be considered, i.e. what really happens to T12 lamps in July of 2012? The new design must also meet accepted standards of lighting quantity and quality while making economic sense.

This class will look at a number of interior and exterior spaces, and the steps necessary to make decisions about the available lamps, ballasts, luminaires, controls, and how they may be successfully applied.

## **Class Cities, Dates and Locations**

Tacoma, WA .... Tues., Sept. 20th ..... Courtyard by Marriot; 1515 Commerce St. Tacoma, WA 98402  
Portland, OR ..... Tues., Sept. 27th ..... Center for Architecture: AIA Portland; 403 NW 11th Ave. Portland, OR 97209  
Boise, ID ..... Fri., Sept. 30th ..... Idaho AGC; 1649 W. Shoreline Dr. Boise, ID 83702  
Everett, WA ..... Thurs., Oct. 6th ..... Snohomish Co. PUD; 2320 California St. Everett, WA 98201  
Missoula, MT ..... Wed., Oct. 12th ..... Hilton Garden Inn; 3720 N. Reserve St. Missoula, MT 59808  
Bellevue, WA .... Wed., Oct. 19th ..... Puget Sound Energy; 10885 NE 4th St. Bellevue, WA 98009  
Seattle WA ..... Tues., Oct 25th ..... Lighting Design Lab; 2915 4th Ave. Seattle, WA 98134

Register at [www.lightingdesignlab.com](http://www.lightingdesignlab.com). Registration and payment are required in advance. For assistance, please contact Anne Ducey at 206-325-9711, ext. 129 or [anne@lightingdesignlab.com](mailto:anne@lightingdesignlab.com)

## **Class Fees**

Standard registration ..... \$30 per class (lunch included)  
Employees of sponsoring organizations ..... \$10 per class (lunch included)  
Students (with valid Student ID) ..... \$10 per class (lunch included)

## Staff Changes @ the LDL

by Anne Ducey, Marketing & Communications

In June, the Lab's manager, **Michael Lane**, bid farewell to the LDL after accepting a position at Puget Sound Energy. Michael was the first lighting specialist hired after the Lab opened its doors in 1989 before his promotion to manager in 2008. Countless clients have benefited from his vast lighting knowledge and affable manner. We wish him the best!

Until a permanent manager can be hired, **Andrew Pultorak** is serving as interim manager.

Newly hired but not new to the Lab is **Anne Ducey** who will take on marketing and communications responsibilities. "It's a great opportunity to combine my lighting experience with my marketing expertise," she said. I loved serving as the Lab's acting manager in 1996-97, and I'm thrilled to be back!" This is Anne's 30th year working for Seattle City Light's conservation division.



Anne Ducey, newly-hired marketing & communications specialist; and Andrew Pultorak, interim LDL manager.

And finally, on April 4<sup>th</sup>, the Lab celebrated the life of **Randy Smith** who passed away in February. Many colleagues and friends came together to share stories about Randy and his time at the Lab. And we've greatly appreciated all the heartfelt phone calls and letters of condolence. It's been wonderful to know that Randy had such a positive impact on so many people.

## Are LEDs Replacing the T8?

by Jeff Robbins, LC, MIES



Photo courtesy of OSRAM Sylvania

The vast majority of all new products in the lighting market today come from the solid state industry. For instance, there are 1,000 LED replacement lamps registered in the May 2011 edition of *Lighting Facts Product Snapshot*. A single manufacturer produced one million LED lamps in the first quarter of 2011. It would seem that we are being overrun by a tidal wave of product. Will there be anything left over for the traditional technologies which are getting better across the board as a result of being pushed by competition with LEDs?

Case in point: NEMA reported that as of May of this year, one billion 4 ft. fluorescent lamps were burning in this country, half of which were magnetically ballasted T12s. How should they be replaced?

According to a recent U.S. Department of Energy study, even though LED technology seemed to be improving quickly, it may still be lagging behind some of those traditional technologies in terms of performance. For example, the best of the replacement T8LED lamps is rated at around 1,700 lumens, while even the lowest performing old 34WT12 'Watt-Miser' produced 2,475. So until SSL products close the gap, (and they surely will), what can be counted on?

One proven technology that just keeps getting better are T8 lamps and electronic ballasts. OSRAM Sylvania recently brought to market a 'Programmed Start' T8 lamp that has an astonishing 55,000 hours average rated life (12 hrs/ start), and comes with a 5 year warranty. In other words, it may last just as long as an LED lamp while costing a great deal less. Now that's progress.



The Lighting Design Lab Newsletter is published by the Lighting Design Lab. Send any comments or requests to be removed from our mailing list to Anne Ducey, editor at [anne@lightingdesignlab.com](mailto:anne@lightingdesignlab.com)

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