



January 2007

# The Lantern

The Newsletter of the Mother Lode Section of IESNA



## Daylight Influence on Human Performance

Happy New Year! As we bring in 2007, we are pleased to have Lisa Heschong, of Heschong-Mahone-Group, from our own Mother Lode Section, take time to present to us on a daylighting case study.

Lisa Heschong, architect, LC, is a principal of the Heschong Mahone Group, Inc., in Sacramento California. Ms. Heschong led the research team that found a correlation between the presence of daylight in classrooms and improved student performance, and has recently completed three additional studies for the PIER program looking at how daylight and window characteristics influence human performance in offices, schools and retail buildings. She is the author of numerous guidelines, manuals, magazine and journal articles, including work with CHPS, the U.S. Department of Energy, and California utilities. Ms. Heschong has a Masters of Architecture from the Massachusetts Institute of Technology.



### DATE

Wednesday, January 24, 2007

### TIME

Board Meeting	5:00 PM
Social	6:00 PM
Dinner Served	6:30 PM
Presentation	7:00 PM

### ADMISSION

Full-time student	\$10
Member and Non-member with Reservation	\$25
Member and Non-member no Reservation	\$30

Please make your reservations by 3:00 PM  
Friday, January 19, Miguel Castellanos,  
Ecom 916-570-1576 [mac@ecomeng.com](mailto:mac@ecomeng.com)

**MENU:** Chicken Fajitas; Carne Asada;  
Carnita Quesadillas; Vegetarian available  
upon request

When registering for this event please let  
Miguel know what menu item you prefer –  
thank you

### LOCATION

Viento's Mexican Bar and Grill  
Town and Country Center  
2916 Pasatiempo Lane  
(916) 487-0500

Please note: Because we are charged, we  
must bill for reservations made but not kept.

*Please share this Newsletter in your office*

### Welcome New Members

who joined us in 2006!

Aric Goe  
Interface Engineering, Sacramento  
916-288-6200

Meg Hobbs  
RMB Architects, Sacramento  
916-488-8500

Milutin Backovich  
Kitchell, Sacramento  
916-648-9700

Melissa Blevins  
CLTC, Davis  
530-757-3452

Jesse Bastian  
Student, Sacramento  
916-622-2054

Jim Puba  
Up-Light Electrical Engineering, Yuba City  
530-790-0620

Kaitlin LeSage  
Student, Sutter Creek

Warren Trueblood  
The Engineering Enterprise, Auburn  
530-886-8556

Mother Lode Section membership is now at 78 members due to the resurrection of the Yosemite Section. Let's get out there and invite all our friends in the lighting industry to join us for fun and education!

*Gale Spencer*

Membership Chair 2006-2007

### Just for fun

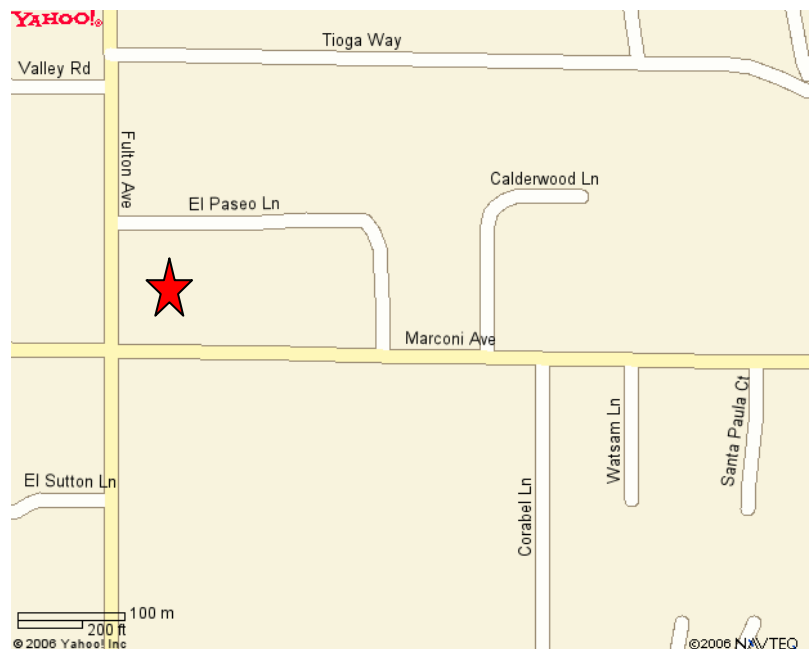
In less civilized countries, when native tribes beat the ground with clubs and yell, it's called witchcraft. Today, in civilized society, it's called golf.

"You must be the worst caddie in the world," said the dejected golfer after a disastrous afternoon on the course.  
"I doubt it, sir," replied the caddie.  
"That would be too much of a coincidence."

From The Good Sports Joke Book by Paul Miller

He who loses his conscience has  
nothing left worth keeping.  
Isaak Walton, 1593-1683  
English Writer

### Map for the January Meeting



## *When Lighting Attacks Part 2*

**Subject:**

Flag Pole Lighting

**Problem:**

Flood Light causes too much glare

**Proposed Solution:**

Add a glare shield as cheaply as possible

**Result:**

Accelerated Mosquito Breeding Facility



You gotta love American Ingenuity. My Grand Dad used to save everything for re-use somewhere else. Coffee cans and Mason Jars became storage for every little

loose tid bit in his garage/shop: Rusty nails, old stripped out nuts and bolts, used motor oil... Nothing was ever thrown away. Ever!

He was very thrifty. Once, he bought an entire case of aluminized silver paint from one of those discount stores. Why? Because they were 25 cents a piece. He proceeded to paint everything that was not nailed down (and some things that were) silver. Grandma was not pleased. But Grand Dad liked shiny things. (I digress).

Neighbor "X" (as he will be referred to in this piece) comes from the same cut of

cloth that my Grand Dad did. The intent was good, the result, not so much. The rusty color inside the can does lend a nice warm color to the flag at night though.

The idea was to protect the neighbors from excessive glare and focus the light up at the Flag, Neighbor "X" simply cut the bottom out of a coffee can and taped it to the flood light. Good idea in theory. Unfortunately, the can, I mean Glare Shield, fills up with water when he waters his lawn in the summer. And thus, becomes a hot tub for water Bourne insects. And so, I have to take an alternate route when going for my evening walk with my daughter. West Nile Virus is not pretty from what I have heard.



You do have to appreciate Neighbor "X" at least making the attempt. Some neighbors could care less. That's another story all together.

Don't forget to send in you "When Lighting Attacks" pictures to me. A brief description is all I need.

Thanks,  
*Doug Coleman*

IIDA Chair 2006-2007  
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*Juan Jose's Tidbits...*



As we begin a New Year and leave behind the holiday celebrations, one New Year tradition comes to mind: The lowering of the crystal sphere at Times Square. Probably all of us have seen it on Television at some point in our lives.

The Ball has been lowered at midnight every year since 1907, with the exceptions of 1942 and 1943, when its use was suspended due to the wartime "dim-out" of lights in New York City. The crowds who still gathered in Times Square in those years greeted the New Year with a moment of silence followed by chimes ringing out from One Times Square.

The current version of the Times Square New Year's Eve Ball, designed by Waterford Crystal, made its first descent during the last minute of the 20th century, at the Times Square 2000 Celebration. The Ball is a geodesic sphere, six feet in diameter, and weighs approximately 1,070 pounds. It is covered with a total of 504 Waterford crystal triangles that vary in size and range in length from 4.75 inches to 5.75 inches per side.

For the 2007 New Year's Eve celebration, 72 of the crystal triangles feature the new "Hope for Peace" design, consisting of three dove-like patterns symbolizing messengers of peace. The remaining 432 triangles feature Waterford designs from previous years, including the Hope for Fellowship, Hope for Wisdom, Hope for Unity, Hope for Courage, Hope for Healing, Hope for Abundance, and Star of Hope triangles. These crystal triangles are bolted to 168 translucent triangular Lexan panels which are attached to the aluminum frame of the Ball. The exterior of the Ball is illuminated by 168 Philips Halogená Brilliant Crystal light bulbs, exclusively engineered for the New Year's Eve Ball to enhance the Waterford crystal. The interior of the Ball is illuminated by 432 Philips Light Bulbs (208 clear, 56 red, 56 blue, 56 green, and 56 yellow), and 96 high-intensity strobe lights, which together create bright bubbling bursts of color. The exterior of the Ball features 90 rotating pyramid mirrors that reflect light back into the audience at Times Square.

All 696 lights and 90 rotating pyramid mirrors are computer controlled, enabling the Ball to produce a state-of-the-art light show of eye-dazzling color patterns and a spectacular kaleidoscope effect atop One Times Square. The New Year's Eve Ball is the property of the building owners of One Times Square. (Courtesy of Times Square Alliance and Phillips lighting)



**MOTHER LODE SECTION  
SUSTAINING MEMBERS**

**California Energy Commission** Gary Flamm

**Capitol City Design** Tony Baker

**CJS Lighting** Robert O'Flaherty

**Lighting By Design** Gale Spencer

**M. Neils Engineering, Inc.** Mike Neils

**Sacramento Municipal Utility District** Alan Suleiman

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**WEBMASTER** - Abhijeet Pande, HMG  
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