



November 2005

The Lantern

The Newsletter of the Mother Lode Section of IESNA



To Infinity and Beyond!

Buzz Lightyear may not have had lighting in mind when he coined the phrase, but enlightenment and new discovery were. This month's program highlights the future of lighting and the research and development of energy saving products and systems that can take us to infinity and beyond... OK, maybe not that far, but at least into the next decade! Come and see the showcase of finalist entries in the Lighting for Tomorrow 2005 Design and Technology Competition (www.lightingfortomorrow.com) and explore the latest projects at the California Lighting Technology Center. We are fortunate to have this forward thinking research facility in our own backyard. Join us for some great Barbeque catered by Ludy's and a hands-on experience at this great facility. Just make sure you wash off the BBQ sauce before handling the fixtures. ;-)

Date	RESERVATIONS
Wednesday, November 16, 2005	Please make reservations by Midnight, Monday, November 14.
TIME	John Hickman, 916-412-6995
Dinner Served 6:00 PM	hickmanjohn@comcast.net (preferred)
LOCATION	ADMISSION
California Lighting Technology Center 1554 Drew Avenue; Davis, CA 95616 530-757-3444	Member w/reservation \$25 Member w/o reservation \$30 Non-member w/reservation \$30 Non-member w/o reservation \$35 Full time Student Free

Directions from Sacramento:

Take Interstate 80 west to Davis. Take the Richards Blvd. South exit (as opposed to the Richards Blvd. Downtown exit). The exit will take you onto Richards Blvd. After crossing the overpass, Richards Blvd. becomes Cowell Blvd. Stay in the right lane. Turn left onto Drew Avenue. Kaiser Permanente and Interland have buildings at the corner of Cowell and Drew. Proceed to 1554 Drew and turn into the parking lot.

Map:

<http://www.cltc.ucdavis.edu/cltc/index.cfm?objectid=9D269D9B-9B24-B582-FF485DBF89C7AD2A>

PLEASE NOTE: Because we are charged, we must bill for reservations made but not kept.

Please share this Newsletter in your office



Winter Social



Kill some time with the Motherlode Section at our Winter Social aboard the Delta King. Gun fire rings out through the air ... the room falls quickly to silence ... an unsuspecting diner has been shot ... the adventure begins! Your plans for a quiet dinner aboard the magnificently restored riverboat with fine food, service and companionship have suddenly turned into a "Who-Done-It" thriller. Welcome to Suspects Murder Mystery Dinner Theatre - interactive theatre at its best! Everyone is both sleuth and suspect involved in the effort to solve this mysterious crime while enjoying a delicious dinner and a hilarious sequence of events.

Where:

The Delta King Dinner Theater
1000 Front Street
Old Sacramento, CA 95814
Phone: (916) 444-5464

When:

Thursday December 8th, 2005; 7:00 PM

Cost:

Admission with Reservation: \$25*
Admission without Reservation: \$35*

*Space is limited! PLEASE reserve as soon as possible!

RSVP:

Due by Noon, Friday November 11, 2005

(We have to confirm our head count by the end of the day, 11-11-05)

Contact: John Hickman

Phone: 916-412-6995

e-mail: hickmanjohn@comcast.net
(Preferred)



Prez Sez

Which direction are we going? As a lighting designer, I think heavily upon the end users when designing a space. Who are the end users: owners, property managers, workers, facility operators, elderly, children or all the above?

Each and every space deserves the required attention for a good, if not great, lighting design.

IESNA has gone from quantity of light to the addition of quality of light – a needed change in today's world. But, what does this really mean?

It means that every space is unique with its own collection of finishes, designs, textures, and expected user interface.

White light, colored light, and health issues are major headlines in today's journals; scotopic versus photopic, lamp lumens versus pupil lumens (lumens the eye really sees), illuminance meters, luminance meters and irradiance meters – these are not new topics but are new hopefully to be incorporated into every day lighting design and IESNA.

Which direction do you think IESNA should go next?

Suggestions and fresh ideas are needed and welcomed at

any level of IESNA. Let your voice be heard.

Connie Buchan, PE, LC
President 2005-2006
916-732-6404
connie.buchan@smud.org

Moving on...

Frank Frounfelker, currently the Mother Lode Treasurer, has accepted a new position as the Western Regional Manager for Ameron Poles Division which will move he and his wife to Tucson, Arizona, at the end of November. Frank joined the Mother Lode Section immediately upon moving to the Sacramento area in 2003 and has served as Treasurer ever since. He is a good friend, a fun colleague, and a blessing!

Please join us in wishing Frank well on his new life adventure.

IESNA Treasurer

Gale Spencer, Lighting by Design, long-time participant in the Society and the Mother Lode Section, is running for Treasurer of the IESNA. This is a position which Gale is more than qualified for and allows the Mother Lode Section to be represented nationally. We are very proud of Gale and her willingness to use her expertise to serve the IESNA. When you receive your

ballots, please consider Gale for this position!

Five for Four Offer:

The Mother Lode Section is offering admission to five regular meetings for the price of four meetings! (The Winter and Summer socials are excluded from this offer).

The cost is \$100.00 for five meetings. Meetings do not have to be consecutive.

Save the hassle of getting separate checks for your IES meetings. You may purchase your five for four tickets at any IES meeting through January, 2006.

Contact John Hickman to purchase your five for four tickets.

916-412-6995
hickmanjohn@comcast.net

Just don't give up
trying to do what you
really want to do.

When there is love and
inspiration,
I don't think you can go
far wrong.

Ella Fitzgerald,
1918-1996
American Singer

illuminating Engineering Society of North America

100th Anniversary



Transformed by Light

The following article is excerpted from a brochure on the conference:

<http://www.iesna.org/100/Glance/history.html>

Once upon a time, when the sun went down the streets were dark. But cities grew and became modern, opening new perspectives and possibilities as light transformed the night. An infrastructure of light provides a radiance that defines urban life. The stories behind that glow will animate an exhibition that encourages the public to explore the shadow and sheen of the New York night:

Transformed by Light.

This trip through a series of luminous environments will highlight two centuries of technologies, encompassing Edison's bulb, theatrical spotlights, the runways of JFK, and LEDs in high-rise living rooms. It will investigate themes including pleasure, accessibility, and security in a city dedicated to seeing and being seen.

Exhibition Strategy
Transformed by Light will provide a nocturnal tour of New York City. As visitors proceed from dusk through dawn, they will discover key themes behind the construction of the night. By drawing on the public's familiarity with lighting, the exhibition will present a series of visual, emotional, and intellectual surprises. The exhibition will reveal the hidden in the ordinary. It will portray the extraordinary people and products, and science and technology behind the lights.

Transformed by Light will open at the Museum of the City of New York in celebration of the one-hundredth anniversary of the IESNA. Transformed by Light will be based on research that explores the central role of lighting in

the construction of urban environments. Its case study is New York; its stories will apply to cities and towns throughout the United States. The exhibition will include historical and contemporary artifacts, artworks, and images within a series of specially lighted environments.

A visit to this exhibit is scheduled as part of the IESNA Annual Conference, January 2006. If you have an interest in lighting and how it impacts us, you will find this part of the conference to be exceptional. For more information, check out the website for the Centennial conference: http://iesna.org/100/Exhibit/ex_overview.html. It contains all the information you need to attend this once-in-a-lifetime opportunity.

Gale Spencer, LC

Section Centennial Chair
916-649-2220

litegal@surrewest.net

**Happy
Thanksgiving**

Centennial Lighting Project

The Mother Lode Section has adopted a lighting project for the IESNA Centennial Celebration. The board has selected a local playground that has no lighting, located in the north corner of Morrison Creek Estates.

The playground equipment was donated by Home Depot in partnership with KaBoom. An empty lot was cleaned up and the equipment was installed.

Kids were able to play in the park until dark, which is happening much earlier now that winter is approaching. The Sacramento Police department asked if SMUD could install lights. Regrettably, the homeowners association did not have a budget for such a project.

It happens that the Mother Lode Section has been looking for a Centennial lighting project that would be enduring. The idea for illuminating this park was presented and adopted at the October Board of Managers meeting.

The project has already started to move forward. The Sacramento Police Department has been notified and they are thrilled. The homeowners association has agreed to pay for the electricity and is very thankful

to everyone involved. We are excited with the prospect of the project. A few lighting representatives have already offered to contribute.

As the project progresses please look for updates in The Lantern.

The following have donated goods or services:

**Lighting By Design
Gale Spencer, LC, IESNA**

Request for Participation:

Legislative and Energy Committee Pacific South Coast Region

Recent years have seen numerous changes to energy codes and the input of the lighting community is needed!

The main focus of the Legislative and Energy Committee is to provide an organized forum of qualified lighting input during state level hearings, workshops, and reviews.

In order to do that, this committee needs members! Ideally, a minimum of one representative from each section is requested. Committee members would:

- Provide professional lighting input
- Attend workshops and hearings on a rotating basis with other members
- Review proposed code changes

- Disseminate information between states and section memberships
- Provide a valuable service, at a state level, on behalf of the lighting community

DISCLAIMER: It is important to note that any findings, opinions or other communication expressed as a result of this committee's activities are the acts of concerned individuals and NOT of the IESNA.

If you are interested in joining this important and necessary group of concerned lighting professionals, please contact me as soon as possible.

Shelli Sedlak, LC

Chair, Legislative and Energy Committee
IESNA, Pacific South Coast Region
951-601-1015
shelli.sedlak@ge.com

From the Editor

My apologies to Doug Coleman, CAL Lighting, for not listing him as the IIDA Chair and member of the Board of Manager in the September and October Lanterns.

Gary Flamm

Lighting Education

Congratulations!

Another class has completed the IESNA ED100 course. Twenty students have taken the time to learn about lighting or update their knowledge. The hope is always that the students not involved in industry will enter the industry and help us grow and prosper. This class had an additional section added for California Title 24 and the relationship to lighting. The added section was well received and helped many of the students understand how important lighting is to our quality of life and our energy future. Please join me in congratulating the following students:

- ✓ Mary Jane Agatep
- ✓ Melissa Blevins
- ✓ Sally Brown
- ✓ Margie Daniel
- ✓ Roy Gosz
- ✓ Keith Graeber
- ✓ Mike Gross
- ✓ Meggan Kessler

- ✓ Jill Kneeland
- ✓ Fatima Long
- ✓ Martha Manzanares
- ✓ Khuyen Nguyen
- ✓ Greg Parks
- ✓ Robert Revell
- ✓ Jan Schoof
- ✓ Carol Short
- ✓ Warren Trueblood
- ✓ Richard Turner
- ✓ Cathy Van Deale
- ✓ Mark White

As always, without instructors these classes would not be possible. Please help me in thanking the following instructors for their valuable time and help:

- ✓ Jim Barnett
- ✓ Miguel Castellanos
- ✓ Doug Coleman
- ✓ Gary Flamm
- ✓ Owen Howlett
- ✓ Konstantinos Papamichael

Planning for next year?

...great, because we will be offering even more lighting education classes in 2006.

Often, just as soon as a series of classes start, a few people who are unable to schedule the classes ask when the next course will be offered. So, please mark your calendar now.

We will start 2006 with an ED50 class on a Saturday in February. Next, we will be turning the ED100 world upside down by offering these classes on weekends in March. And if that is not enough, we are looking to offer the long overdue ED150 course starting in April or May. So, please watch the web site and Lantern for exact dates and times.

Thanks again to all of the students and instructors for a great education year in 2005.

Mark Crume

Education Chair
rcrume@smud.org
 916-732-6672

Title 24 Update

The Energy Commission held its first public workshop on the 2008 Building Energy Efficiency Standards on October 24 and 25, at the Commission in Sacramento. Web pages for the 2008 Building Energy Efficiency Standards are online, and information is being added frequently:

A link for the 2008 Standards has been added to the Title 24 "portal page" at <http://www.energy.ca.gov/title24/>.

An email list (list server) is maintained by the Commission's Media Office, and we encourage you to sign up for that one as well. The Media Office sends an email to this list when items are posted regarding the Standards. If you are not already on that list, you may sign yourself up at www.energy.ca.gov/title24/2008standards/ in the List Server box in the left column.

Juan Jose's Tid bits...

These pictures depict the Sacramento River Water intake Station. This building can be seen while driving on Interstate 5 along the river at the Richards Boulevard exit.

The building's main purpose is to house the pumps and electrical switchgear. However due to its interesting architecture it has gained a lot of attention. It was intended to resemble a docked ship at the end of a pier. However the building has gained the name of the "The Dragonfly."

One can relate to the nickname by seen the main building as the thorax, the bridge/pier as the abdomen and the roof as the open wings of a dragonfly.



A creative solution for general illumination of the bridge/pier is to incorporate the lighting poles and luminaires with architectural elements shaped as "sailboats." The parking area is lighted with indirect luminaires at top of poles. The main plaza contains an illuminated fountain at floor level, which children enjoy playing with. The stamped concrete floor creates an interesting pattern on the floor, children can be seen jumping from one polygon to another, a variation of "hop-scotch" if you will.



The building extensively uses glass which makes it very unique. The building is open to the public during business hours; however it is worthwhile seeing at night. It would be a nice place to have a jazz concert or perhaps a café and sit by the river and enjoy a cup of coffee with dessert.

Juan Jose Villatoro

M. Neils Engineering Inc
916-923-4400

jjvillatoro@mneilsengineering.com

The Lantern – Yosemite “Satellite” Section

The Yosemite “Satellite” Section would like to extend appreciation to Gary Flamm for providing a detailed presentation on October 12th, addressing the Title 24 changes for the Commercial Indoor and Outdoor Lighting requirements. It was well received by 34 attendees, 15 of which were current members of our local “satellite” section. I would like to thank everyone who was able to attend this valued presentation and support our initiative.

Update on what is on our agenda for the upcoming year:

- ✓ November 30th Lamp and Ballast Technology
- ✓ January (TBA) ED-50
- ✓ January 18th Environmental Lighting / Dark Skies Presentation
- ✓ January (TBA) ED-100
- ✓ February LEED Presentation
- ✓ March Title 24 – Part II
- ✓ April Yosemite “Satellite” Golf Tournament

As we value our membership’s input, please feel free to contact any of our Officers, Board of Managers and/or Committee Chair people with any suggestions. In addition, if you would like to become more involved by participating as a Committee Chair please introduce your interest at your convenience.

YOSEMITE SATELLITE 2005-2006

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Lincoln's 1863 Thanksgiving Proclamation

The year that is drawing towards its close, has been filled with the blessings of fruitful fields and healthful skies. To these bounties, which are so constantly enjoyed that we are prone to forget the source from which they come, others have been added, which are of so extraordinary a nature, that they cannot fail to penetrate and soften even the heart which is habitually insensible to the ever watchful providence of Almighty God. In the midst of a civil war of unequalled magnitude and severity, which has sometimes seemed to foreign States to invite and to provoke their aggression, peace has been preserved with all nations, order has been maintained, the laws have been respected and obeyed, and harmony has prevailed everywhere except in the theatre of military conflict; while that theatre has been greatly contracted by the advancing armies and navies of the Union. Needful diversions of wealth and of strength from the fields of peaceful industry to the national defence, have not arrested the plough, the shuttle, or the ship; the axe had enlarged the borders of our settlements, and the mines, as well of iron and coal as of the precious metals, have yielded even more abundantly than heretofore. Population has steadily increased, notwithstanding the waste that has been made in the camp, the siege and the battle-field; and the country, rejoicing in the consciousness of augmented strength and vigor, is permitted to expect continuance of years with large increase of freedom.

No human counsel hath devised nor hath any mortal hand worked out these great things. They are the gracious gifts of the Most High God, who, while dealing with us in anger for our sins, hath nevertheless remembered mercy. It has seemed to me fit and proper that they should be solemnly, reverently and gratefully acknowledged as with one heart and voice by the whole American People. I do therefore invite my fellow citizens in every part of the United States, and also those who are at sea and those who are sojourning in foreign lands, to set apart and observe the last Thursday of November next, as a day of Thanksgiving and Praise to our beneficent Father who dwelleth in the Heavens. And I recommend to them that while offering up the ascriptions justly due to Him for such singular deliverances and blessings, they do also, with humble penitence for our national perverseness and disobedience, commend to his tender care all those who have become widows, orphans, mourners or sufferers in the lamentable civil strife in which we are unavoidably engaged, and fervently implore the interposition of the Almighty Hand to heal the wounds of the nation and to restore it as soon as may be consistent with the Divine purposes to the full enjoyment of peace, harmony, tranquility and Union.

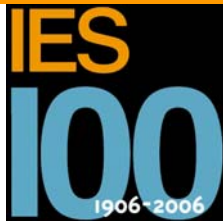
Abraham Lincoln

Lincoln's Thanksgiving Proclamation was taken from the collection of Lincoln's papers in the Library of America series, Vol II, pp. 520-521

<http://members.aol.com/calebj/proclamation.html>

MOTHER LODE SECTION SUSTAINING MEMBERS

California Energy Commission	Gary Flamm
Capitol City Design	Tony Baker
City of Sacramento	Wes Hiratsuka
CJS Lighting	Robert O'Flaherty
Gale Spencer	Lighting By Design
Interface Engineering, Inc.	Stuart Lindsay
Lighting Systems	Keith Roberts
M. Neils Engineering, Inc.	Mike Neils
Sacramento Municipal Utility District	Connie Buchan



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