February 2006

The Lantern

The Newsletter of the Mother Lode Section of IESNA

Tour of the Cathedral of the Blessed Sacrament

CATHEDRAL
OF THE
BLESSED SACRAMENT
RENOVATION

Please join us for an enlightening experience touring the newly restored Cathedral of the Blessed Sacrament in Downtown Sacramento.

Explore the design challenges and solutions of this nationally recognized project. Michell Pierce of Vanir Construction narrates the tour of this facility with an emphasis on lighting design effects and creative solutions. Beyer Blinder Belle and Horton Lees Brogden Lighting Design of New York designed a lighting scheme that highlights the new liturgical elements including the baptismal font, altar, tabernacle, bishop's chair and reservation chapel. Similarly, the entire exterior lighting scheme highlights the cathedral against the night skyline of Sacramento.

Date

Monday, February 27, 2006

TIME

Board Meeting	4:30 pm
Tour (Dinner NOT Included)	6:30 pm

LOCATION

1017 11th Street, Sacramento
(Between J and K Streets)

RESERVATIONS

Please make reservations by
Friday, February 24
John Hickman, 916-412-6995
jhickman@hubbell-ltg.com (preferred)

ADMISSION

Member w/reservation	$10
Member w/o reservation	$15
Non-member w/reservation	$15
Non-member w/o reservation	$20
Full time Student	Free

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

Please share this Newsletter in your office

IESNA

More than the name implies...

If you thought, as the name suggests, that the Illuminating Engineering Society of North America is composed of only engineers who work with lighting, you'd be wrong.

The strength of the IESNA is in its diverse membership, with architects, lighting designers, educators, interior designers, contractors, distributors, government and utility personnel, manufacturers, and scientists, all contributing to the Society's mission—that being to advance knowledge and disseminate information on good lighting practice.

A good indication of just how diverse the IESNA is, is to look at its leadership:

IESNA'S Current President is the President of the New England College of Optometry
When asked about his 30-year affiliation with the Society, Dr. Alan Lewis said . . .
"Just as I am valued in IESNA for the contributions I can make from my knowledge of the visual system, so also am I able to bring what I learned from my lighting colleagues to bear on problems in clinical optometry."
"There has never been a greater need to bring together those with expertise in vision and visual performance with those who can translate technology into effective, comfortable and efficient lighted environments."

IESNA'S President Elect is an Architect
Kevin Flynn, IESNA's President Elect is an architect with Kiku Obata and Company. He's been a member since 1988, and here's what he has to say about his years as an IESNA member . . .
"The connections I have made through IESNA both at the local and national level have been invaluable to my career. Both programming at the local level and attending the annual conference have allowed me to continue my learning and growth in lighting. Having reference to IESNA publications has helped in developing my lighting designs."

So now when you think of the Illuminating Engineering Society of North America, we hope you'll think about its diverse membership—the architects, lighting designers, contractors, utility personnel, interior designers, manufacturers, scientists and more, who have made the IESNA what it is today, and understand how membership in the Society has benefited their careers, as it can yours.

Centennial Conference

Mother Lode Board Members

Report from Connie Buchan: The last event of the Centennial Conference was the Black Tie Gala Celebration Dinner. Imagine sharing an evening with your friends all looking their best, sipping your favorite beverage, discussing the events of the past few days, and reliving the history and our present love for lighting. Past Presidents were honored and many attended with their spouses. A toast and shout to commemorate the last 100 years circled throughout the room while many entrees were served. I had the honor of sharing a table with many Mother Lode friends and some new ones. Even my lighting professor from prior college days was celebrating with us. Dr. Alan Lewis, Current IESNA President, closed the evening with a keynote address on Dreams & Visions.

A truly enchanting evening to be remembered forever.

Report from Gale Spencer: What a wonderful experience! This was my 16th conference, and very different from the others. There was almost an air of celebration (gosh, I wonder why??). We learned a lot about the history of the Society, the lighting industry and the people who have preceded us in this industry. Instead of having three or four choices of seminars to attend, we had one or two, depending on the times. All speakers who made presentations were there by invitation only. One speaker who especially interested me spoke on “A (partial) History of Lighting Design”. She included the subject of the 1939 World’s Fair, where lighting was a significant issue. Fluorescent lighting was introduced at that fair, and we know it’s had a significant impact on the industry since then.

The “technical” portion of the conference consisted of a review of the top 100 research papers presented over the past 100 years. What effort it took to just create that list!The finale, the President’s banquet was an evening to remember. We had approximately 20 past presidents in attendance. They were all seated on a two-tiered head table with their spouses. The atmosphere was one of a party, with “the wave” going around several tables. There was no dancing at the end of the evening, as there has usually been. But instead a ceiling full of gold balloons fell to the floor. The sights, sounds (and flavors) of a wonderful dinner, and elegant evening, will be with me for a long time.

More Centennial pictures are on the following pages.
Thank you, Connie Buchan, Gale Spencer, and Miguel Castellanos for providing these pictures.

Centennial Leadership Forum

Report from Miguel Castellanos: With this being my first IESNA Conference, and my first time to New York City, I had much to look forward to. Times Square seemed to fit like a glove with its' amenities, location, and of course, it's hypnotic lure of exterior lighting to made us all look towards the sky at the various colors, designs, and logos. There were many well known speakers, who gave us their take on the past, present, and future of lighting. But for me, the Leadership Forum was what stood out the most for me.

With this being my first year on the board, I had much to learn. Especially since I am taking on a dual role of both Secretary and Treasurer in our section. The forum was a place where ideas were shared from other sections of IES, as well as a great networking opportunity to put a face to the names of people you hear about, and meet others who are involved with IES: Committee Chairs, Section Officers, Regional Vice Presidents, and even people who wanted to attend, just to represent their sections.

It was interesting to see and hear what was successful, and of course the unsuccessful at meetings from other sections. With this, we hope to run more efficient meetings, involve other local organizations, expand our membership, and become a beacon for which the local industry will turn to for information.

I was very proud to represent the Mother Lode Section, along with Connie Buchan and John Hickman at the Forum. We are already beginning to implement many of the new ideas that we picked up, that we feel will not only benefit the Mother Lode Section of IES, but the local industry as well. Be sure to check out our website for further details!

The Mother Lode Section was well represented

More Centennial Pictures

Adieu to Tim Welch

The Mother Lode Section wishes the best for Past President, Tim Welch, as he moves to Southern California. Tim has made many valuable contributions to the Mother Lode Section, and to the Society, over a number of years. We will miss you, Tim.

Leviton Lighting Management Systems Appoints Welch Technical Sales Specialist for Southern California Region

Little Neck, NY, January 24, 2006 – Leviton Manufacturing is pleased to announce the appointment of Tim Welch to the position of Technical Sales Specialist for the company's Southern California region. Welch's territory will extend to the Los Angeles, San Bernardino, Riverside and Orange counties where he will work to generate sales for Leviton's extensive line of lighting management systems and help educate designers, engineers and specifiers on the company's broad product offering for energy management, architectural and entertainment applications.

Welch arrives at his new post with a formidable track record in lighting controls sales and system design. He most recently worked as a lighting controls sales agent for Leviton covering the Reno, Sacramento and San Francisco areas. In a career spanning 20 years, Welch has developed an extensive background in the design, development and delivery of cost-effective lighting control solutions for residential as well as commercial projects, including theatres and performing arts centers. His background also includes specialized expertise creating control system designs that comply with California's Title 24 requirements and specifications.

Welch attended San Francisco State University and lives in Los Angeles. For more information, contact Leviton Manufacturing, 59-25 Little Neck Parkway, Little Neck, NY, 11362-2591 or visit our website at www.leviton.com.

Lighting Education

The Mother Lode Section hosted an "Introduction to Lighting" course on Saturday February 11th.

This course is designed as an introduction for people with little or no knowledge of lighting. The course covers basic lighting principles, terms and calculations. This course will provide a good background for people who want to explore the world of lighting or move to the next level by taking the ED-100 course.

Mark Crume
Education Chair
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916-732-6672

At the SMUD E&TC

Following are classes sponsored by the Sacramento Municipal Utility District (SMUD) at the Energy & Technology Center:

Commercial Landscape Lighting
March 22, 2006

8:30 a.m. - Noon (No Charge)
Jan Moyer, LC, will explain how landscape lighting is both an art and a science. This class will demonstrate how people see and react to light while finding the best ways to introduce and effectively use lighting in your landscape designs.

Principles of Lighting
April 25, 2006

8:00 a.m. - Noon (No Charge)
Kathleen Peake, LC, will discuss three main areas of the basics of lighting: sources, surfaces, and people. Questions such as "how lighting is generated and distributed", "how light is transmitted, absorbed, reflected and measured", and "how light and color are perceived and processed" will be answered. This class is an overview of vision and visibility, light and color, optical control and luminaires, lighting metrics, and calculations.

To register:
Check out our website for on-line registration:
www.smud.org

Or contact Connie Buchan, 916-732-6404 for more information.

At the Pacific Energy Center

Following are some of the classes scheduled at the PEC, San Francisco, CA:

Lighting Fundamentals
Feb 28 or May 23
David Orgish

Daylighting in Practice: Lessons from the Seattle Better Bricks Daylighting Lab.
March 9
Joel Loveland of the Seattle Better Bricks Daylighting Lab.

In-depth Look at Visual Perception. March 29
Stanford Vision Scientist Dr. Brian Wandell

Title 24: Outdoor Lighting Case Studies.
May 9
Halley Fitzpatrick

Enhanced Lighting Automation in Commercial Buildings.
June 22
Jeannine Fisher Komonosky, PE, LC and James M. Yorget, PE, LC

For more information, or registration for any of the above classes at the PEC please go to:
www.pge.com/pec

> The one thing that doesn't abide by majority rule is a person's conscience.
>
> Harper Lee, born 1926

Happy accident

White light from Bowers; lumpy new bulb. Credit: Vanderbilt University

Michael Bowers, a graduate student at Vanderbilt University, was just trying to make really small quantum dots, which are crystals generally only a few nanometers big. That's less than 1/1000th the width of a human hair.

Quantum dots contain anywhere from 100 to 1,000 electrons. They're easily excited bundles of energy, and the smaller they are, the more excited they get. Each dot in Bower's particular batch was exceptionally small, containing only 33 or 34 pairs of atoms.

When you shine a light on quantum dots or apply electricity to them, they react by producing their own light, normally a bright, vibrant color. But when Bowers shined a laser on his batch of dots, something unexpected happened.

"I was surprised when a white glow covered the table," Bowers said. "The quantum dots were supposed to emit blue light, but instead they were giving off a beautiful white glow."

Then Bowers and another student got the idea to stir the dots into polyurethane and coat a blue LED light bulb with the mix. The lumpy bulb wasn't pretty, but it produced white light similar to a regular light bulb.

The new device gives off a warm, yellowish-white light that shines twice as bright and lasts 50 times longer than the standard 60 watt light bulb.

This work is published online in the Oct. 18 edition of the *Journal of the American Chemical Society*.

Connie Buchan, PE, LC

To read more visit LandscapeOnline.com magazine, November 18, 2005 issue.

Just for Fun

Loyalty

Tim was an avid football fan, but he had a really lousy seat location. Spying through his field glasses, he spotted an empty seat on the fifty-yard line and rushed down to try to snag it.

When he got there, Tim asked the man sitting next to it “Is this seat taken?” The man replied, “This was my wife’s seat. Like me, she was a big fan, but she passed away.”

Tim replied, “I’m sorry to hear of your loss. May I ask why you didn’t give her ticket to a friend or relative?”

The man replied, “They’re all at the funeral.”

The Lantern – Yosemite "Satellite" Section

Update on agenda for the upcoming year:

- ✓ Feb — Title 24 Controls
- ✓ March — ED 50, ED1500,
- ✓ April — Yosemite Golf Tournament
- ✓ May — LEED Presentation

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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Room for a Little More Fun

Whoever thought up "It's only a game" probably just lost one.
It is always unlucky to be behind at the end of the game.
The trouble with being a good sport is you have to lose to prove it.

The Good Sports Joke Book by Paul Miller

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Tony Baker

City of Sacramento
Wes Hiratsuka

CJS Lighting
Robert O'Flaherty

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http://www.iesmotherlode.org