

IES



April 2005

The Lantern

The Newsletter of the Mother Lode Section of IESNA



HID and Beyond...

Dave Alexander, 1st Source Lighting

T5, pulse-start metal halide, and induction lighting are the new alternatives to standard HID solutions. These new technologies not only improve the quality of illumination but also save money. Creative designs are sometimes required to utilize this technology, we will see some local installations in William Land Park, Mountain People Warehouse, and several gymnasiums around town. Examples of T5 fluorescent and induction luminaires will be passed around to examine and take apart. Issues such as CAD designs, thermal testing, ITL testing, and aesthetic review will also be discussed.

Dave Alexander is a consultant and manufacturer's representative for 1st Source Lighting. Dave has been doing lighting for 20 years including twelve years as a lighting maintenance contractor where he learned about real world applications for lighting.

Date

Tuesday, April 19, 2005

LOCATION

Andiamo's Tuscan Room,
3145 Folsom Blvd., Sacramento
916-456-0504

TIME

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

MENU

Pork loin, Chicken basilica, or
Eggplant rollatini.

ADMISSION

Member w/reservation	\$25
Member w/o reservation	\$30
Non-member w/reservation	\$30
Non-member w/o reservation	\$35
Full time Student	\$10

When registering for this event, please let Connie know what menu item you would prefer – thank you.

RESERVATIONS

Please make your reservations by
3:00 Friday, April 15
Connie Buchan, SMUD 916-732-6404
connie.buchan@smud.org

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

Please share this Newsletter in your office

**MAY
MEETING**

Sneak Preview:
Tuesday, May 17

Lighting After the Year 2015

Diarmuid McSweeney,
Holophane

IIDA

The IIDA program of the IESNA provides a unique opportunity for public recognition of professionalism, ingenuity, and originality in lighting design based upon the individual merit of each entry judged against specific criteria.

Please call me if you have any questions.

Frank Frounfelker

IIDA Chair
916 995 6561
frank@sierrawestlighting.com

**IESNA
Centennial
January 10, 2006**

The Centennial of the Illuminating Engineering Society of North America's founding in 1906 should be a time of reflection on our history, values, unique characteristics and culture; a period of celebration of past and present achievements;

and a moment to look ahead to the exciting future that awaits the IESNA.

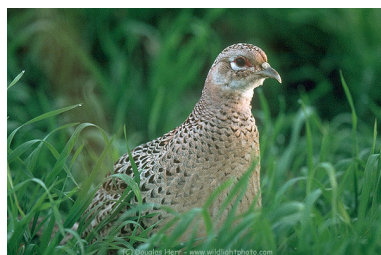
We welcome your involvement in this year's activities. There are many opportunities to participate in committees and projects where your contribution is greatly appreciated.

Please feel free to contact me if you have any questions.

Gale Spencer

Centennial Chair
916-649-2220
litegal@surewest.net

photographs by Douglas Herr a personal view of North America and its wildlife
all photographs Copyright (C) Douglas Herr 916-987-1659 <http://www.wildlightphoto.com>



Education **Introduction to Lighting**

We are offering an "Introduction to Lighting" course again.

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.

When:

Saturday May 21
9 am – 3 pm
(Lunch included)

Where:

SMUD Energy & Technology Center
Lighting Classroom
6301 S Street
Sacramento, California

For a directional map, Please see:

<http://www.smud.org/about/map/index.html>

Registration:

The cost of the class is \$50. Please make your check payable to the IES Mother Lode Section. Include the name, company, address, and daytime phone number of each person registering and mail your check only (no cash or credit cards numbers) to:

Mark Crume, c/o SMUD
PO Box 15830, MS
A102
Sacramento, CA
95852-1830

Congratulations

To the following students who made the commitment to complete the most recent ED-100 course:

- ✓ Andrew J Bell
- ✓ Jennifer M Dyer
- ✓ Dan C White
- ✓ Kellie Chambers
- ✓ David Geoffroy
- ✓ Cheryl Lee
- ✓ Alejandro Mora
- ✓ William Kwong
- ✓ Andrew Brown
- ✓ Patricia M Fetch

These students came to learn about IES, lighting, and themselves.

Hopefully they learned a lot. I know that we

learned from the students. The instructors enjoyed the exceptional class participation and student feedback. Some of their suggestions will be used to enhance future classes.

I thank the following instructors for taking time out of their busy schedules to teach these classes. These classes would not have happened without their participation.

- ✓ Marion Rader
- ✓ Frank Frounfelker
- ✓ Connie Buchan
- ✓ Alan Suleiman
- ✓ Gary Flamm
- ✓ Jim Barnett

Thanks to the following companies for giving supplies, loaning merchandise providing facilities, and other help:

SMUD

- ✓ Connie Buchan
- ✓ Jodi Newman
- ✓ Thomas Dean

TCP

- ✓ Mindy Haverland

SYLVANIA

- ✓ Aura Hasper

Mark Crume

Education Chair
916-732-6672

rcrume@smud.org

Yosemite Section is "Shaping Up"!

We are pleased to announce that we had another successful meeting on March 17, in Fresno.

We were joined by Tom Tolen, IES Region VP for the South Pacific Region and Rob Sumner of Bodine who provided an informative educational segment on:

"Fundamentals of Emergency Lighting".

The topic was certainly valued and well received by the 22 people who attended.

A special thank you to...

- ✓ Rob Sumner
- ✓ Tom Tolen

...for taking time in coming to Fresno and making our meeting a tremendous success.

We also thank those who attended and are bringing value to our section.

Our next scheduled event:

High Frequency Electronic Ballasts for Higher Wattage Metal Halide Lighting Systems

Presenter:

Diarmuid McSweeney,
Holophane

Thursday, April 7 at 12:00-1:00p:

Fresno Convention Center
New Exhibit Hall

848 M Street, Room 2000
Fresno, CA

The presentation will address various performance characteristics including:

- ✓ 277/240/208 VAC, 50/60 Hz, Auto-Sensing Voltage
- ✓ 400/350/320 Watt Metal Halide and Pulse Start lamps
- ✓ Continuous Dimming Option
- ✓ Additional energy savings

- ✓ Daylight Harvesting™ applications
- ✓ High Frequency Sine Wave Secondary
- ✓ 1.0 Ballast Factor
- ✓ FCC Certified for EMI/RFI Compatibility
- ✓ Silent Operation Eliminating Noise Nuisance
- ✓ Flicker Free Lamp Operation Eliminating Stroboscopic Effects
- ✓ Improved Lamp Color Stability

Jay Marshall

Holophane Lighting
2742 Swift Avenue
Clovis, CA
559-291-1256 (Office)
559-291-1732 (Fax)
jmarshall@holophane.com

All things are difficult
before they are easy

John Norley

Yosemite Section List of Members

Please review the current list of IES Members that reside in the southern part of the central valley. It is our intent to make sure all of our members and participants are being made aware of upcoming events and educational opportunities. If you or someone you know is not receiving information relating to our scheduled events and educational segments and would like to participate in the Yosemite Section, please contact Jay Marshall at jmarshall@holophane.com or at 559-291-1256 for more information

Arrigoni & Associates
Electrical Power Systems, Inc
Cornelius Consulting Group
B-K Lighting
B-K Lighting
Waters Engineering
Integrated Designs
Integrated Designs
Hagen Noble & Associates
Wellmade Products
Gurcinas & Associates Inc
Borrelli & Associates
Holophane
B-K Lighting
Sunrise Lighting Systems
Processes Unlimited
Western Lightsource
Graybar, Inc
2H Engineering Corp
2H Engineering Corp
CAL Lighting
teter a+e
Interatate Engineering Inc.
CBC Lighting
Valley Unique Electric
teter a+e
New Electric, Inc.
Electric Motor Shop

Mr. David Arrigoni
Mr. Gary Olsen
Mr. Gerald Cornelius
Mr. Douglas Hagen
Mr. Bruce Kalkowski
Mr. Vincent Waters
Ms. Sharon Ashida
Mr. Larry Miller
Mr. Jon Noble
Mr. Todd Wayman
Mr. Rimas Gurcinas
Mr. John Borrelli
Mr. Jay Marshall
Mr. Ronald Naus
Mr. Henry Kim
Mr. Rob Fisher
Mr. Mark Havens
Mr. Jamie Thompson
Mr. Richard Hardin
Mr. Alex Ho
Mr. Pete Chapman
Mr. Santiago Rendon
Mr. Davor Golik
Mr. Don Stockton
Mr. Mark Worthington
Mr. Tim Fickling
Mr. Bill Repar
Mr. Ray Keith



At the E&TC...

SMUD's Energy & Technology Center is having a Title 24 summer. The following classes will be devoted to lighting, both residential and nonresidential.

Title 24 – 2005 Update to Nonresidential Indoor Lighting

June 29, 2005
August 3, 2005

8:30 a.m. - Noon

Title 24 Updates to Nonresidential Outdoor Lighting.

July 20, 2005
July 21, 2005

8:30 a.m. - Noon

Title 24 Updates to Tailored Method for Nonresidential Lighting

August 17, 2005
8:30 a.m. – noon

Title 24 Updates to Residential Lighting.

June 15, 2005
8:30 a.m. – 11:30 a.m.

Register:

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

or contact Connie Buchan
connie.Buchan@smud.org

916-732-6404 for more information.

PG&E Residential Lighting Course

California Kitchen Downlighting System

Dr. Michael Siminovitch, of the California Lighting Technology Center, will present the results of a high efficacy recessed lighting product development project funded by the CEC PIER program. This cutting edge kitchen "can" lighting system offers potential way to meet stringent 2005 residential new construction lighting requirements and qualify for early compliance credits right now.

4/27 & 5/17, 2005
Davis, California

www.pge.com
1-800-244-9912

Job Opportunity

ECOM Engineering

Position: Drafter

Qualifications: Minimum one year Autocad experience.

Some Responsibilities:
Modify architectural background drawings, complete detailed drawings from sketches, plans, written and verbal instructions. Understand and follow company's standard cad procedures.

Contact Person:
Cheryl Lee
cal@ecomeng.com



This shows the lamp used in the first public lighting in December 1879. It has a carbonized paper filament,

platinum screw clamps connecting the filament with the leading in wires. The lamps were made by hand in the laboratory. The electric light plant on the steamer "Columbia," started on May 2, 1880, was equipped with lamps like this.

MOTHER LODGE 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	Gale Spencer
Interface Engineering, Inc.	Stuart Lindsay
Lighting Systems	Keith Roberts
M. Neils Engineering, Inc.	Mike Neils
Sacramento Municipal Utility District	Connie Buchan

MOTHER LODGE SECTION
2004-2005

OFFICERS

PRESIDENT

Tim Welch, CJS Lighting
916-787-6630; tjw@cjslighting.com

VICE PRESIDENT

Connie Buchan, SMUD
916-732-6404; connie.buchan@smud.org

SECRETARY

Abhijeet Pande, HMG
916-962-7001; pande@h-m-g.com

TREASURER

Frank Frounfelker, Sierra West Lighting
916 995 6561 frank@sierrawestlighting.com

BOARD OF MANAGERS

Mark Crume, SMUD
916-732-6672; rcrume@smud.org

John Hickman, CJS Lighting
916-774-6888; jmh@cjslighting.com

Owen Howlett, HMG
916-962-7001; howlett@h-m-g.com

Stuart Lindsay, Interface Engineering, Inc.
916-288-6200; Stuart_L@ieice.com

PAST PRESIDENT

Gary Flamm, CA Energy Commission
916-654-2817; gflamm@energy.state.ca.us

COMMITTEE CHAIRS

EDUCATION - Mark Crume

IIDA - Frank Frounfelker

PROGRAMS - Connie Buchan, SMUD

CENTENNIAL, MEMBERSHIP,

PUBLICATION SALES
Gale Spencer, IESNA, 916-649-2220
litegal@surewest.net

PR/AWARDS, LANTERN - Gary Flamm, CEC

WEBMASTER - Abhijeet Pande, HMG

<http://www.iesmotherlode.org>



SOCIETY PRESIDENT

Craig A. Bernecker, Ph.D., FIES, LC (2004-05)
Lighting Education Institute
409 Rennard Drive
Exton, PA 19341
cbernecker@lightingeducation.com
Tel: 610-524-7969; Fax: 610-524-8969

REGIONAL VICE PRESIDENT

Thomas Tolen (2003-06); TMT Associates
403 Commodore Drive
Richmond, CA 94804
tom@tmtassoc.com
Tel: 510-232-2881; Fax: 510-232-2810