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OCTOBER 2008

Rocky Mountain Monthly

IESNA ROCKY MOUNTAIN SECTION

WWW.IESRMS.ORG

OUTDOOR LIGHTING BUS TOUR

Join us for this very special event, as we gather on Saturday, October 11 at the Marriott Denver City Center to tour applications of different street and area lighting fixtures. As we are joined by the SALC Committee, we will take an authentic British double-decker bus (to get the best views) throughout the metro area to examine fluorescent, incandescent, LED, and even induction lamp applications. We'll look at some of Denver's finest architectural features and how they are lit, and discover the importance of design in some of downtown's "mistakes".

Our bus tour includes several appetizers and finger sandwiches, followed by dessert, and even includes a selection of wine and beer. Best of all, this tour is FREE for members, and only \$10 for non-members! Mike Rogers and David Keith take us for this 80 minute ride from the front desk of the Marriott Denver City Center, and back again, showing all the lighting that Denver has to offer.

Sign up quickly, as this free or inexpensive meeting is sure to sell out fast. Only 50 spaces total, so reserve your space today!

All passengers must be 21 years of age.



Register for this meeting right now!



Click here to be automatically directed to the registration website.

OUTDOOR LIGHTING TOUR DETAILS

Date: Saturday, October 11, 2008

Location: Marriott Denver City Center (1701 California)

Time: 6:00pm

Deadline for RSVP is Friday, October 10

Cost: FREE Members
\$10 Non-Members
FREE Students

Students attend free thanks to...



DIRECTIONS?
CLICK HERE



Wisdom, A History of Street Wonders, Lighting in America

and
Wit

The use of street lighting was first recorded in the Arab Empire from the 9th-10th centuries, especially in Cordoba, and then in London from 1417 when Sir Henry Barton, the mayor, ordered "lanterns with lights to be hanged out on the winter evenings". It was introduced to the United States by famed inventor Benjamin Franklin, who was the postmaster of Philadelphia, Pennsylvania. Because of this, many regard Philadelphia as the birthplace of street lighting in the United States.

The colonial-era streetlights were lit by candles placed inside a glass vessel, which kept the candle from being blown out by wind. Franklin's design was four-sided, with four separate panes of glass, so that if one pane of glass was broken, the lamp did not need to be entirely replaced, and might not even blow out.

After the invention of gas light by William Murdoch in 1792, cities in Britain began to light their streets using gas. The United States followed suit shortly afterwards with the introduction of gas lighting to the streets of Baltimore in 1816. Throughout the nineteenth century, the use of gas lighting increased. Some locations in the United States still use gas lights; see Gas lighting.

After Edison pioneered electric use, light bulbs were developed for the streetlights as well. The first city to use electric street lights was Cleveland, Ohio in 1879. By the beginning of the 20th century, the number of fire-based streetlights were dwindling as developers were searching for safer and more effective ways to illuminate their streets. Fluorescent and incandescent lights became very popular during the 1930s and 1940s, when automobile travel began to flourish. A street with lights was referred to as a white way during the early 20th century; part of New York City's Broadway was nicknamed the Great White Way due to the massive number of electric lights used on theater marquees lining the street.

MEETING ABOUNDS WITH AWARDS

More than 70 people gathered to kick off the season for the Rocky Mountain IES Section at the 2008-2009 Lamp & Ballast Expo on September 16. Among the awards portion of the evening, **Michael Rogers of ME Group** was awarded the Volunteer of the Year Award, as his efforts through the previous season significantly helped grow and maintain the sections needs. **Shane Lacey of George Lacey Sales** was awarded a plaque and an automobile GPS Navigation System for his contributions and generosity as Sponsor of the Year. And **Jim Blakley of Holophane** was awarded a plaque and 14 karat gold Past President lapel pin in recognition for his service and guidance as president during the 2007-2008 program year.



Section President Tyler Wise presents the Volunteer of the Year Award to Michael Rogers

EDUCATION
INFORMATION

2008 SALC comes to Denver

Denver is the host city for the 2008 Street and Area Lighting Conference (SALC), and we couldn't be more excited about it. The SALC comes to the Marriott Denver City Center October 12-15, with lots of classes, lectures, and exhibits. This year's conference is jam-packed with information and education.

An extensive offering of classes are available, covering everything from emerging technologies, design software, lighting for municipalities, and lots of information on LEDs. There are classes for every level, from basic to advanced. Additionally, every class is accredited for CEUs, LUs, and Professional Development Hours.

More than 40 exhibitors will be on hand for the exhibit hall trade show, open throughout the conference, showing the latest in street and area lighting products as well as new technologies. There's even an SALC golf tournament taking place at Fossil Trace for those who are interested!

Register for the entire conference, or just one day of classes. Or chose to just attend the exhibit hall or even just one of the classes! Flexible registration and exciting topics are sure to make this a "must see" event here in Denver. Plus, with the discounts for IES members, first time attendees, and multiple registrations from the same company, the deals are endless! Be sure to sign up today! Click the link below for registration paperwork.

[Register Online NOW!](#)

A big thanks to our Lamp and Ballast presenters!

The Rocky Mountain section greatly appreciates the support of these presenters, who provided hands-on demonstrations as well as brief presentations on the latest in lamp and ballast technologies.



THANK YOU FOR YOUR SUPPORT!



! ATTENTION STUDENTS!

All students now attend IESRMS section meetings FREE!

Any student member of the IESNA is invited to attend at no charge, compliments of Lighting Analysts. Just show your student ID, and your admission and dinner is complimentary to all section meetings during the 2008-2009 season! Thanks to our sponsor, Lighting Analysts!



Who Won Over \$100 This Month?

Tom Houlihan of Greg Fisher Lighting Sales won our door prize of **Free Meetings for a Year.**

Chris Klodetsky of George Lacey Sales won **\$50 cash!**

A Letter from the Section IIDA Awards Chair

News from the IES front: in 2009, the IIDA program will be renamed the IES Illumination Awards, in conjunction with the Society's Strategic Plan. It will be the first year all entries will be submitted online, and some of the judging will be done virtually from judges' desktops. It is believed that these changes will benefit participants at all levels of the judging process. Please look for more information soon to be posted on the IES web site at www.ies.org.

The IES Awards program recognizes individuals for professionalism, ingenuity and originality in lighting design based on the individual merit of each entry. Judges are selected from a broad professional spectrum representing knowledge of lighting and design excellence. The judging system is entire based on how well the lighting design meets the program criteria. The IES Awards program is not a competition. Please submit your entries early.

Leo Mendoza,
IES Illumination Awards Chair

Outdoor Lighting Bus Tour

Marriott Denver City Center

October 11

On Saturday, we welcome members of the Street and Area Lighting committee to join us for a double-decker bus tour of street lighting in the Denver metro area.

2008-2009

Upcoming Section Events

LED Expo

Original Brooklyn's

February 10

Join us as we invite manufacturers to bring you the latest products and technologies in the LED industry along with demonstrations and discussions on the industry.

White May Not Be Right

Original Brooklyn's

November 11

A crowd favorite over the last few years, David Keith is back with a new presentation. In November, David joins us to speak about proper lamp application and use.

Holiday Lights Tour

Union Station

December 9

Bring along your friends and family for a FREE EVENT as we enjoy hot chocolate and snacks, and take a tour of the highlights of holiday lights around Downtown Denver!

Daylighting Design Expo

Original Brooklyn's

March 10

As the world turns to energy savings, we invite exhibitors to share new innovations in daylighting products along with a discussion on designing with daylight.



Electric Lighting Used to Reduce Greenhouse-Gas Methane Emissions from Dairy Cows

dairy cows about 16 hours of combined daylighting and electric lighting daily -increases the cows' milk production by an average 10%. As such, the nation obtains the milk it needs from 10% fewer dairy cows than it would otherwise need. Electric lighting makes that possible and, as such, helps reduce the 'national herds' methane emissions by 10%. That's a significant number. We have about ten million dairy cows in the United States, each releasing about a half-pound of methane into the atmosphere each day. A 10% reduction equates to a reduction of more than 180 million pounds of methane each year." Mr. Colgan said that the lighting systems used to achieve long-day lighting

Electric lighting helps prevent about 200 million pounds of methane - a greenhouse gas - from being released into the atmosphere by U.S. dairy cows each year, because of lighting's ability to increase milk production. According to National Lighting Bureau Chairman Robert W. "Rob" Colgan, Jr., the National Electrical Contractors Association's (NECA's) executive director of marketing, "The practice of 'long-day lighting' - giving

are "comparatively easy to design and inexpensive to install, operate, and maintain. It's essential to use up-to-date technology, of course, in order to keep energy consumption and operating costs to a minimum."

While some of the electricity dairy farmers use for long- day lighting systems is furnished through conventional utility systems, continually more dairy farmers are generating their own electricity using alternative energy sources, such as methane derived from cow manure. "Systems like this do far more than reduce greenhouse-gas emissions by reducing our reliance on fossil fuels," Mr. Colgan said. "We reduce greenhouse-gas emissions still more by burning methane that would otherwise become a greenhouse gas." Mr. Colgan went on to cite the case of a dairy farmer who provides all of his farm's electricity by using a covered-lagoon methane generator. The system saves the farmer some \$5,000-\$6,000 per month while stripping up to 99% of the organic pollutants from the wastewater created by farming operations. "In addition," Mr. Colgan said, "heat from the generator is used to heat the manure lagoon and warm the water used to clean the facilities, and the wastewater left over after the

methane is extracted is used to fertilize the fields." He noted that "some of our NECA-member electrical contractors see these highly efficient, sustainable systems as a potentially significant niche market."

Research suggests that lighting stimulates milk production in dairy cows by reducing bovine melatonin production, in turn stimulating glands that affect the amount of milk cows produce. As reported several years ago by the National Lighting Bureau, lighting affects human melatonin production in a somewhat similar manner, although for reasons that still are unclear.

Scientists have only recently discovered that nonvisual photosensitive retinal ganglion cells (RGCs) exist in the human eye.

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ENERGY

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