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APRIL 2007

Rocky Mountain Monthly

IESNA ROCKY MOUNTAIN SECTION

WWW.IESRMS.ORG

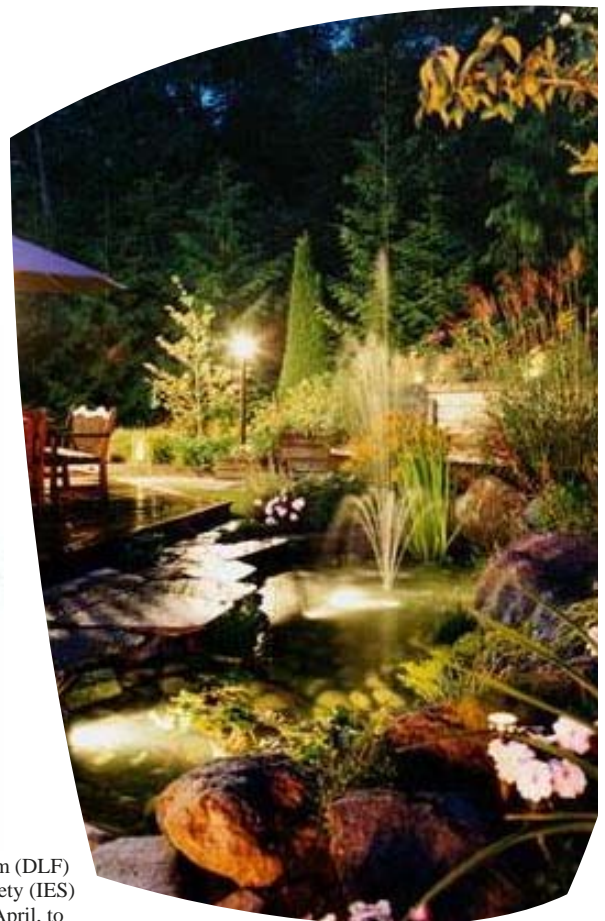
Landscape Lighting The Visual Connection to Gardens after Dark

This seminar will provide attendees with tools to visualize how an outdoor environment can be revealed at night. Janet Lennox-Moyer, renowned lighting designer, will share the lighting issues necessary in creating successful, luminous compositions. Jan will show day and night comparisons, and discuss how lighting planning needs to consider all the changes the garden will experience over time, and, as always, provide practical application information.

The presentation will be followed by a demonstration of various techniques and equipment in the Gardens.



Please note that this is a Designers Lighting Forum (DLF) event, and is not an Illuminating Engineering Society (IES) section meeting. IES will not host a meeting in April, to encourage its members to attend this unique event.



LANDSCAPE LIGHTING MEETING DETAILS



Date: Tuesday, April 17, 2007

Time: 5:30pm

Cost: \$20 Members
\$35 Non-Members
\$15 Students

Location: Hudson Gardens
6115 South Santa Fe Drive, Littleton

RSVP: Barb Brown – beejay512@cs.com
Gary Dvorak – gdvorak@lumenpower.com

Deadline for RSVP is Friday, April 6

Wisdom,

Wonders,

and

Wit

Lighting the London Eye

Situated on the South Bank of the River Thames near Westminster Bridge, the London Eye stands 450 feet tall and is the largest big wheel in Europe. Up to January 2006, the London Eye, which can take up to 800 people in its 32 pods, was the largest in the world until it was capped by a similar construction in Nanchang, China. It rotates at 0.85 feet per second (that is about 0.5 mph) so that one revolution takes about 30 minutes. Eye riders enjoy a breath-taking view over the whole of London – on a clear day you can even see Windsor Castle which is almost 30 miles away. Designed by architects David Marks and Julia Barfield, the London Eye recently received the World Travel Awards.



Seven years after it was opened the "Gateway to London" has now received a new state-of-the-art lighting system. The old fluorescent lamps have given way to a modern LED system comprising around 640 LED units and a modern control system using Chromacore technology. Millions of colors can be programmed to create the desired effect. Brilliantly and dynamically lit, the London Eye is now even more impressive – a true London eye-catcher.



EDUCATION
INFORMATION

Still Time to Register for ED-100 Class

The ED-100 course is an introductory survey of the principal issues in lighting. Vision, color, and the physiology of the eye are included, as well as basic illumination terminology. Sources, photometry, and calculations are discussed, and further information about economics and specific applications will be provided. The course materials are included with the registration fee and available to early registrants for advance study. The *Ready Reference*, a great desktop book, is also included.

COURSE DETAILS

Dates:

April 21, 28, May 12, 19

Times:

8:00am - NOON

Cost:

\$500 Non-Members
\$350 Members

Location:

Corelite; 4675A Holly
Denver, Colorado

Click here to register now!

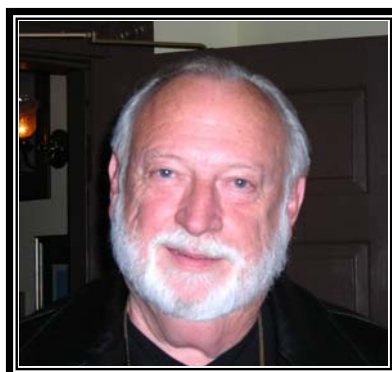
[Register Online NOW!](#)

For more information e-mail David Keith, Education Chair, at educate@iesrms.org.

MEET SECTION MEMBER... Parvin Johnson

Parvin comes to the Rocky Mountain IESNA from South Florida, where He lived and worked for 50 years as an electrical engineer. His career reads like a history book. He was involved in converting government buildings in the Panama Canal Zone from 25 hertz to 60 hertz , designing sites for the Cuban missile crisis during the Kennedy administration, and work at Cape Canaveral for the manned space flights.

Parvin joined the IESNA in November 1966 and gave his time to various committees, leadership positions, and served as Chairman of the South Eastern Conference. He taught the IESNA beginning and intermediate lighting design classes for his local chapter, as well as lighting design classes at Florida International University and the International Interior Design College. He designed lighting for the Breakers Hotel, Broward General Hospital, Palm Beach Post Times, St. Patrick's Church, St. Anthony's Church, multiple schools, office buildings, facades, and shopping centers. This is an accomplished man!



Now he is retired...well sort of. Living in Crestone, Colorado, with his wife of 50 years (Patricia), he is sculpting and painting and designing a state of the art home that will operate "off the grid".

Please take the opportunity to introduce yourself to this inspiring gentleman and his wife when they make it to the Denver meetings.

LEI offers LIGHTING FUNDAMENTALS ONLINE!

Learn the fundamentals of architectural lighting from the comfort of your own office. The Lighting Education Institute is pleased to announce the first truly interactive online fundamentals course targeted toward architects, interior designers, engineers, lighting designers, manufacturers, sales agencies, electrical distributors, and others.

Led by Craig A. Bernecker, Founder and Director of The Lighting Education Institute, the class will run for seven weeks from April 9 through May 21, and will include six interactive web

seminars (90 minutes each), and a dedicated website with the weekly lessons, multiple resources and "assignments," class forums and chat rooms, as well as archiving of the weekly seminars for later viewing and review. Participants will finish the course with a clear understanding of the basics of lighting and lighting vocabulary, and a better understanding of lamps and luminaires, color characteristics, lighting design criteria, and other lighting topics.

For further information visit The Lighting Education Institute website, lightingeducation.com, or call 610-524-7969, or email lei@lightingeducation.com.



WEB LINK

Click the link to go right to the site!

www.EPRI.com
The Electric Power Research Institute (EPRI), with major locations in Palo Alto, California; Charlotte, North Carolina, and Knoxville, Tennessee, was established in 1973 as an independent, nonprofit center for public interest energy and environmental research.

www.NLB.org
The National Lighting Bureau (NLB) is a nonprofit organization founded in 1976 to educate lighting decision-makers about the benefits of High-Benefit Lighting®.

www.NFPA.org
The mission of the international nonprofit NFPA is to reduce the worldwide burden of fire and other hazards on the quality of life by providing and advocating consensus codes and standards, research, training, and education.

www.LRC.RPI.edu
The Lighting Research Center is the world's leading university-based research and education center devoted to lighting – from technologies to applications and energy use, from design to health and vision.

Every Day is Earth Day here in Colorado!

Earth Day is Sunday, April 22. This spring, government-supported EnergyStar asks you to help protect the environment by changing one light bulb.



EnergyStar qualified light bulbs and fixtures use up to 75% less energy than standard lighting products, and come in dozens of popular styles to suit your home, office, or commercial property.

To receive your free **ENERGY STAR LIGHTS** catalog, call 800.660.9157, or shop online at www.estarlights.com.

Find out about Earth Day events and activities, eco-information, and how to get involved. Also includes news and the Climate Change Live Chat.

Visit www.earthday.org for more information and further details.



Landscape Lighting

Hudson Gardens
April 17

DLF proudly presents the latest in landscape lighting, with Janet Lennox-Moyer, discussing the latest trends and design techniques.

2006-2007 Upcoming Section Events

2007-2008 Officer Elections

at www.IESRMS.org
March 26-31

Vote online for your 2007-2008 Rocky Mountain Section officers. More details will arrive via e-mail directly to all section members in good standing!

Getting the Most from your Daylighting

Original Brooklyn's
May 15

The Weidt Group provides an in-depth look at daylighting, and how to make it most effective for various spaces.

2007 Golf Tournament

Golf Club TBA
June TBD

Our annual golf tournament returns again!

The
LIGHTING
AUTHORITY

Denver shows a presence in Urban Lighting Design Regulations

spaces are additionally very important. To feel safe, one needs to be able to perceive where they are and where they are going in time to respond to any perceived danger.

The task force and stakeholders who have worked on the regulations have visited dozens of sites within the city to help determine appropriate lighting for the city. The following are a few of the sites visited that meet the intent and goals of the proposed lighting regulations.

- Stapleton Regional Retail on Quebec between 35th Ave. and Smith Road
- Stapleton Town Center on Quebec between 27th and 29th Avenues
- Lowry Town Center on Quebec at 1st Ave.
- Rita Bass Center at 6th Ave and Bannock
- The Wal-Mart gas station at the Stapleton Regional Retail Car Dealerships
- Murray Motors on Colorado Blvd at Kentucky
- Peak Nissan on South Wadsworth
- Invesco Field at Mile High (on a non-game night)

More information can be found online at www.denvergov.org/Urban_Design

Good outdoor lighting benefits everyone. It increases safety, enhances the city's nighttime character, and protects the environment. However, improperly designed and/or installed lighting create problems of excessive glare, light trespass, decreased safety and higher energy use.

The city's existing regulations are broadly worded and open to interpretation. They are often applied inconsistently. The proposed regulations will increase safety by creating even and uniform lighting, protect the unique character of Denver, encourage sustainable development and provide a consistent standards for all development and for handling complaints.

Lighting in one of many tools that foster a safe environment. Human activity, and the absence of concealed

When light levels are extreme from one spot to another, the human eye cannot quickly adjust. This prevents one from easily perceiving their surroundings and assessing its safety. Therefore, the ratio between the darkest and brightest areas must be within the tolerance range of the eye. This ratio is referred to as the min/max ratio. As one's eyes grow older, the ability to quickly adjust to changes in light levels diminishes. A youthful eye can easily adjust within the bounds of a 20 to 1 min/max ratio while an elderly eye is limited to 10 or 15 to 1. To ensure a safe environment, the city's proposed lighting regulations are based on optics (how the eye works) and the limitation of an aging eye.



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IES

