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MAY 2008

Rocky Mountain Monthly

IESNA ROCKY MOUNTAIN SECTION

WWW.IESRMS.ORG

LIGHTING CONTROLS EXPO

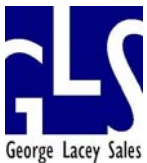
Join us for what is expected to be our largest attended meeting of the year... our Lighting Controls Expo!

Vendors from more than a dozen manufacturers will be at the meeting showcasing the latest in lighting controls technology and innovations in the industry.

Occupancy sensors, daylight harvesting, lighting control panels, dimming systems, DALI systems,

wallbox dimming, and residential lighting controls will all be on hand along with new products not yet on the market!

A heavy appetizer dinner will be available as guests peruse the exhibits and demonstrations from vendors, followed by a lecture on lighting control methods and codes relevant to lighting controls. Be sure to sign up today, as we expect to reach a maximum capacity limit!



Register for this meeting right now!



Click here to be automatically directed to the registration website.

LIGHTING CONTROLS EXPO DETAILS

Date: Tuesday, May 13, 2008

Location: Brooklyn's
2644 West Colfax, Denver

Time: 5:30pm

Cost: \$25 Members
\$30 Non-Members
FREE Students

Students attend free thanks to...



DIRECTIONS?
CLICK HERE



Wisdom,

Wonders,

and

Wit

Lighting Controls 101

Lighting control system consists of a device, typically an embedded processor or industrial computer, that controls electric lights for a building or residence. Lighting control systems usually include one or more keypads or touch panel interfaces. These interfaces allow users the ability to toggle power to lights and fans, dim lights, and program lighting levels.

A major advantage of a lighting control system over conventional lighting is the ability to control any device from any interface. For example, a master touch panel might allow the user the ability to control all lights in a building, not just a single room. In fact, any light might be controlled from any location.

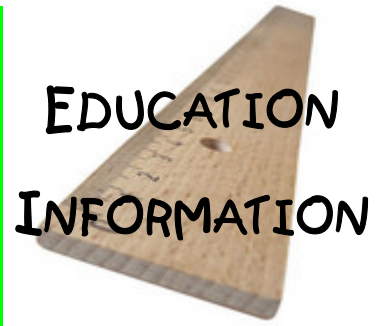
In addition, lighting control systems provide the ability to automatically power a device based on programming events such as:

- chronological time (time of day)
- astronomical time (sunrise/sunset)
- room occupancy
- events
- alarm conditions
- program logic (any combination of events)



Chronological time is a time of day or offset from a time. Astronomical times includes sunrise, sunset, a day, or specific days in a month or year. Room occupancy might be determined with motion detectors or RFID tags. Events might include holidays or birthdays. Alarm conditions might include a door opening or motion detected in a protected area. Program logic can tie all of the above elements together using constructs such as if-then-else statements and logical operators.

This article is provided for informational purposes only, compliments of wikipedia.org, and does not necessarily represent the views or opinions of IESNA, its members, or affiliates.



EDUCATION
INFORMATION

REGISTER NOW FOR ED-100

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 fee and will be available to early registrants for advance study. The *Ready Reference*, revised in 2006, and a great desktop book, is also included.

COURSE DETAILS

CLASS DATES Four Sessions, Saturdays;
June 21, 28
July 12, 19

CLASS TIME 8am – Noon

LOCATION GLS
1210 S. Jason
Denver, 80223

COST \$350 members
\$500 non-members

special discounts available for groups, and new IES memberships

Register Online NOW!

Golf Tournament Registration Now Open!

Mark your calendars for **Friday, June 13**. This years' themed "Friday the Thirteenth" tournament will include lots of surprises. And considering that we gave away over \$4,000 in cash and prizes last year, this one is sure to be worth taking a Friday afternoon away from the office!

[CLICK HERE TO VIEW PHOTOS FROM THE 2007 TOURNAMENT](#)

Registration is NOW OPEN! Click the link below to sign up now! Individuals, partners, trios and foursomes are all welcome! Register today!

Register Online NOW!



RACCOON CREEK

LIGHTING CONTROLS TABLETOP EXPO

Our May meeting (to be held on May 13) will be our Lighting Controls Expo. This highly-requested event is expected to bring our biggest turn-out of the year and with two meetings already having over 80 attendees, that's a lot of people checking out your latest products!

Sign up now to get your space reserved. Available space is going quickly! Click below to be directed to the vendor registration page.

[Register Online NOW!](#)

ENERGY
ESTES PARK | FORT COLLINS | LONGMONT | LOVELAND

If you're planning a new lighting design, **energy efficiency starts now.**

Platte River Power Authority provides assistance to help maximize your building's efficiency and minimize future energy costs.

Our cash incentives will help pay the initial costs of making your project energy efficient.

Contact us today.
970.229.5356 or lightenup@prpa.org
Adam Perry, LIGHTENUP Manager

LIGHTEN UP logo and **PR** logo.

www.prpa.org
2000 East Horsehoath Rd., Fort Collins, CO 80525

PLATTE RIVER POWER AUTHORITY

For the 85 of you who joined us for the **Denver After Dark** tours in early April, THANK YOU for making our event such a success!



The IESRMS **Denver After Dark** tour was the **FIRST** event to sell out, and was the **HIGHEST** attended event of the weekend!

And a big thanks to our very own **Mike Rogers of ME Group** for organizing, hosting, assembling, and managing such a successful and well-enjoyed event!

Proposed Organizational Structure

As the IESNA moves into the future, a significant number of changes to the image of the Society are falling into place. The Board of Directors has put together this brief visual document explaining the changes and enhancements that the newly approved organizational structure will bring to the Society, and how it will be implemented. Click on the IES



logo at left to link directly to this informative document.

The LIGHTING AUTHORITY

**WELCOME
NEW SECTION**

MEMBERS

Meg Podlogar,
LTI Optics
Arvada, Colorado

Douglas Schmidt
Osram Sylvania
Highlands Ranch, Colorado

Frank Sullivan,
ABS Consultants
Denver, Colorado

Donghyun Seo
University of Colorado
Boulder, Colorado

All About Lighting Controls
Original Brooklyn's
May 13

With answers to everybody's questions, manufacturers provide demonstrations of everything from sensors, relays and photocells, to daylighting controls and architectural and theatrical lighting products. A must see meeting!

2008
Upcoming
Section Events

IES
The LIGHTING AUTHORITY

LIGHTFAIR 2008
Las Vegas, Nevada May 26-30

2008 LIGHTFAIR INTERNATIONAL
The future. Illuminated.

2008 Golf Tournament
Raccoon Creek Golf Club
June 13

Our annual golf tournament returns again at the Raccoon Creek Golf Club! More games, fun, and prizes are scheduled for this year's tournament!

Check out our website!
www.iesrms.org

Shining A Light on Hazards of Fluorescent Bulbs

Energy-efficient coils booming, but disposal of mercury poses problems

Compact fluorescent light bulbs, long touted by environmentalists as a more efficient and longer-lasting alternative to the incandescent bulbs that have lighted homes for more than a century, are running into resistance from waste industry officials and some environmental scientists, who warn that the bulbs' poisonous innards pose a bigger threat to health and the environment than previously thought.

Fluorescents — the squiggly, coiled bulbs that generate light by heating gases in a glass tube — are generally considered to use more than 50 percent less energy and to last several times longer than incandescent bulbs.

When fluorescent bulbs first hit store shelves several years ago, consumers complained about the loud noise they made, their harsh light, their bluish color, their clunky shape and the long time it took for them to warm up.

Since then, the bulbs — known as CFLs — have been revamped, and strict government guidelines have alleviated most of those problems. But while the bulbs are extremely energy-efficient, one problem hasn't gone away: All CFLs contain mercury, a neurotoxin that can cause kidney and brain damage.

The amount is tiny — about 5 milligrams, or barely enough to cover the tip of a pen — but that is enough to contaminate up to 6,000 gallons of water beyond safe drinking levels, extrapolated from Stanford University

research on mercury. Even the latest lamps promoted as “low-mercury” can contaminate more than 1,000 gallons of water beyond safe levels.

In general, however, the EPA endorses the use of fluorescent bulbs, citing their energy savings. The EPA also does not discourage their use because of their energy savings, but experts agree that the EPA could be sending mixed signals to confused consumers.



This article is provided for informational purposes only, compliments of MSNBC, and does not necessarily represent the views or opinions of IESNA, its members, or affiliates.

Save The Date!

IESNA STREET AND AREA LIGHTING CONFERENCE

DENVER October 12-15, 2008



Three days of seminars, networking, group discussions and exhibits for outdoor lighting professionals



Marriott City Center Hotel

Look for more info at www.iesna.org in April

SECTION SPOTLIGHT



Be sure to check out the Las Vegas section of the IESNA. Now in their 20th year, we are excited to be joining their region starting in July. With lots of great info, and “the place to be” for Lightfair 2008, just click this image to view the IES Las Vegas section website!

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Vice President	Tyler Wise
Secretary	Nancy Johnson
Treasurer	Val Lawrence

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Awards Chairman	Jeff Kramer
IIDA Awards Chairman	Leo Mendoza
Membership Chairman	Mike Rogers
Past President	Marla Stauth
Committee Members	David Keith, Scott Payne



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