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MARCH 2010

# Rocky Mountain Monthly

IESNA ROCKY MOUNTAIN SECTION

WWW.IESRMS.ORG

## Theatrical Lighting Controls Site Survey

Please join us as Stephanie Adams-Ball with DL Adams Associates discusses design implementation and lighting control systems for performance spaces in this guided tour of a true theatrical space.

We visit an active theatre at the University of Colorado. Macky Auditorium is home of several performing groups including the Boulder Philharmonic, and is a very busy performance hall on the CU campus. For this meeting, we will get a hands-on application of a working venue, and learn proper design terminology, 'gotchas' of design criteria, and points to consider for designing any performance space. We cover lighting systems, space requirements, lighting control equipment, emergency lighting control integration, and how to properly size lighting control

systems for your venue. Considerations for value-engineering responsibly will also be discussed, as well as a Q&A follow-up for those with more questions about this unique area of lighting design.

Stephanie Adams-Ball, with DL Adams Associates, is a lighting designer and theatrical consultant. DL Adams Associates is a consulting firm specializing in acoustics, Performing Arts facility design, and stage technologies.

Dinner is included with this presentation, and will be served promptly at 6pm, with the presentation beginning at 6:30pm.

Please RSVP so we can ensure attendees get proper directions, and that we don't start without anyone!



## THEATRICAL LIGHTING MEETING DETAILS

Register for these meetings right now!



**Date:** Thursday, March 25, 2010

**Time:** 6:00pm

**Cost:** \$20 members  
\$30 non-members  
FREE for students!

**DIRECTIONS?**  
**CLICK HERE**



**Location:** Macky Auditorium  
University of Colorado  
University Avenue & 17<sup>th</sup> Street  
(enter through Stage Door)  
Boulder, Colorado

**Deadline for RSVP is Wednesday, March 24**

Click here to be automatically directed to the registration website.

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# What exactly is LEED?

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System, developed by the US Green Building Council (USGBC), provides a suite of standards for environmentally sustainable construction. Since its inception in 1998, LEED has grown to encompass more than 14,000 projects in 50 US States and 30 countries covering 1.062 billion square feet (99 km<sup>2</sup>) of development area. The hallmark of LEED is that it is an open and transparent process where the technical criteria proposed by the LEED committees are publicly reviewed for approval by the more than 10,000 membership organizations that currently constitute the USGBC.

Individuals recognized for their knowledge of the LEED rating system are permitted to use the LEED Accredited Professional (AP) acronym after their name, indicating they have passed the accreditation exam given by the Green Building Certification Institute (a 3rd party organization that handles accreditation for the USGBC).

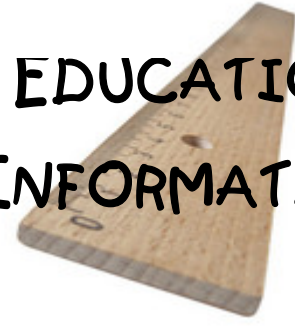


LEED began its development in 1994 spearheaded by Natural Resources Defense Council (NRDC) senior scientist Robert K. Watson who, as founding chairman of the LEED Steering Committee until 2006, led a broad-based consensus process which included non-profit organizations, government agencies, architects, engineers, developers, builders, product manufacturers and other industry leaders. Early LEED committee members also included USGBC co-founder Mike Italiano, architects Bill Reed and Sandy Mendler, builder Gerard Heiber and engineer Richard Bourne. As interest in LEED grew, in 1996, engineers Tom Paladino and Lynn Barker co-chaired the newly formed LEED technical committee.

Green building professionals can become LEED accredited through the LEED Accredited Professional Exam. This accreditation enables an individual to facilitate the rating of buildings with the various LEED systems. Professional Accreditation is administered by the Green Building Certification Institute. GBCI has an education provider program that provide seminars and lectures to prepare candidates to take and pass the LEED AP Exam, which focuses primarily on bringing a project through the LEED process, rather than green building design.

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# EDUCATION INFORMATION



## Lighting Power Density

A comprehensive source for understanding the lighting models underlying the commercial lighting power limits developed in ASHRAE/IESNA 90.1-2004.

The IESNA Energy Management Committee (EMC), working with the Lighting Subcommittee of the ASHRAE/IESNA 90.1-2004 Standing Standards Project Committee (SSPC) has developed an interactive methodology for determining lighting power densities for both individual spaces and whole buildings. This methodology is the basis for the lighting power density numbers found in the ASHRAE/IESNA 90.1-2004 Standard.

This methodology calculates lighting power allowances for building spaces and whole buildings. The process models lighting design assumptions from a consensus of lighting design professionals for each of the space types used in 90.1-2004, using currently available efficient lamp/ballast/fixture data, and illuminance values from current IESNA illuminance recommendations. In this way, the needs of the occupants are taken into account and energy-efficient design is promoted through the resulting lighting power densities.

Visit the link below for information on this educational opportunity:

<http://lpd.ies.org/cgi-bin/lpd/lpdhome.pl>

IESRMS would like to thank our

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THE LIGHTING AGENCY





# Daylight Saving Time 2010

Daylight saving time or summer time is a practice of changing time ahead so that afternoon has more daylight and morning has less. Every summer time is adjusted forward one hour and adjusted backward in autumn. This practice has some conflicts. But DST was not created to confuse our schedules.

New Zealand entomologist George Vernon Hudson created the idea of DST in 1895.

Many countries have implemented the practice since then, but the times changing vary with respect to locations. Early goals of DST was to diminish the usage of electricity, heating and cooling and incandescent lighting.

Each year daylight saving time begins at 2:00 a.m. on the second Sunday of March. Time moves ahead one hour at the start of daylight saving time. Standard times begin each year at 2:00 a.m. on the first Sunday of November.

In 2009, daylight saving times begun on March 8 and ended on November 1 and in 2010, daylight saving times begins on

March 14 and ends on November 7.

Standard time, USA time zone is Alaska Standard Time (PST). When on DST USA time zone become Alaska daylight saving time (PDT). Daylight Saving Time in the United States of America starts on the second Sunday in March of each year and ends the first Sunday in November of each year. The main purpose of daylight saving time is to save energy on residential lighting, which consumes about 3.5% of electricity in the United States and Canada. Daylight saving time has potential effect on health, economic effect, and public safety.



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# 2010

Trade Show & Conference  
May 12-14, 2010

LIGHTFAIR Daylighting  
Institute®  
LIGHTFAIR Institute®  
May 10-11, 2010

Las Vegas Convention  
Center . Las Vegas, NV

**Macky Auditorium is a 2000+ seat historic Concert Hall located on the University of Colorado campus in Boulder. Over the past 100 years Macky has played host to a variety of events including classical music performances, operas, lectures, contemporary artists, and films. A wide range of performers and speakers have graced Macky's stage throughout the years, such as Eleanor Roosevelt, Jerry Garcia, Dave Matthews, Roger Ebert, and Jane Goodall, just to name a few. Macky is also home to CU's College of Music and Artist Series, and the Boulder Philharmonic Orchestra.**

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