



October 2010

Eastern Iowa Chapter

International Facility Management

Web address - <http://www.ei-ifma.org/>

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Date: Tuesday October 12, 2010
Time: 6:00 p.m.– 8:00 p.m. **NOTE: The meeting time is 6:00**
Location: The Hon Company Headquarters Showroom
200 Oak Street
Muscatine, IA

Agenda:

- 6:00-6:15 Registration and Networking
- 6:15-6:45 Dinner & Business Meeting (catered by Elly's Tea)
Will include French dip sandwiches, Sweet potato fries, pasta salad, cookies and bars, soda and water
- 6:45-7:45 Tour (Tour guide to be announced)
- 7:45-8:00 Closing Comments

The HON Company Headquarters is a 68,000 square-foot building located in Muscatine, Iowa. The 100-year-old building is practically a landmark, and HON has been in the building for 60 years.

The HON Company, the second largest office furniture manufacturer in the country (right here in our backyard!), recently completed a total gut renovation project that was designed to achieve LEED-CI Silver certification. SmithGroup Inc. were the architects and engineering firm responsible for the 18-month renovation.

This exciting tour will be of the facility, including the dazzling white three-story atrium. Part of the renovation project included to cut a penetration through the roof for skylights, and then cutting a hole through the steel floors to allow the light to penetrate down through three levels!

The four quadrants of the facility are actually separate buildings, so there are different structural types, different ceiling heights, and different floor levels. The area that brings the four buildings together is a commons area.

Sustainability was a top priority, and 75 percent of construction demolition materials were recycled and reused.

The HON Company, www.hon.com, is one of the HNI Corporation companies, www.hnicorp.com, which includes other companies that may be familiar to IFMA members. See the websites for more information!

The HON Company has provided a Nucleus chair, introduced at Neocon, to the IFMA Eastern Iowa Chapter! Bring your business card to enter the drawing for the Nucleus chair! Must be present to win.

Directions: From I-80 Take the IA-38 S/US-6 W exit, EXIT 271, toward WILTON/MUSCATINE. Turn RIGHT onto US-6/IA-38. Continue to follow IA-38 S. IA-38 S becomes IA-92/US-61-BR/E 2ND ST. Turn RIGHT onto OAK ST. 200 OAK ST is on the LEFT. **Parking – in front of the facility**

Carpooling: We would really like to have a great turnout for our meeting! Let's all carpool and take a nice trip to Muscatine!

- From Cedar Rapids:** Meet at 4:30PM – Pearson facility parking lot, 9200 Earhart Lane
- From Coralville/Iowa City:** Meet at 4:30PM – Coral Ridge Mall, Sears Parking lot
- From Davenport/Moline:** Meet 4:30PM -t Scott County Courthouse parking lot (free parking)

REMINDER – If you RSVP for a meeting and don't attend or cancel after the RSVP deadline you will be sent an invoice for the amount of the meeting. We are still responsible to the caterer for the cost of your meal. If you have questions please let Tracy know.

RSVP to Lynnel @ lynnel.thomas@vangent.com before noon Friday, October 8th Please also indicate if you are going to carpool and from which location.

The U.S. Department of Energy (DOE) has stated that solid state lighting (SSL) "is a pivotal emerging technology that promises to fundamentally improve lighting systems and buildings of the future, significantly lowering energy use and costs, and enhancing the quality of our building environments. No other lighting technology offers our nation so much potential to conserve energy." Both the DOE and manufacturers have invested heavily in SSL. There are two type of SSL sources: the light emitting diode (LED) and the organic light emitting diode (OLED). The former is a point source of light; the latter is an area source.

How do LEDs work?

An LED produces light by electroluminescence when a low voltage direct current is applied to a specially-prepared semi-conductor. The current is controlled by a driver. LEDs can be dimmed to approximately 5 percent of the initial light output without a change in the light's color.

What is RGB light?

An individual LED will produce light of a single color. The mix of light from a cluster of RGB (red, green, blue) LEDs controlled by a digital multiplexing system can produce light of any color. White light produced in this way does not have good color rendering qualities.

What are white LEDs?

In more than six years, the efficacy of white LEDs has soared from 20 lumens per watt (lm/W) to five times that amount. An efficacy of 150-200 lm/W within 12 years has been forecast.

White light is usually produced by applying a yellow phosphor or a combination of phosphors to the blue LED – although the phosphor may be suspended above the LED. This cuts down heating the phosphor and increases the LED life. The color qualities of the white light are specified by its color rendering index (CRI) and its correlated color temperature (CCT).

LEDs are a CRI of more than 90 have been published although values between 70 and in excess of 80 are more common; the latter CRI is about that of a typical fluorescent lamp with good color qualities.

White LEDs have nominal CCT ranging from 2750 (kelvins) –just about the color of the light from a standard incandescent lamp—to 6500 K, sunlight.

To ensure that the color does not vary noticeably from one LED to another in a cluster, they are sorted according to hue and brightness.

How long do LEDs last?

A life of 100,000 hours has been quoted. However, a comment has been noted that around 50,000 hours is a more likely figure. If the LED is in an enclosed luminaire, where it could get hot, close to 20,000 to 40,000 hours can be expected.

An LED does not fail like an incandescent lamp; rather it fades over time. The quoted life is frequently taken to mean the hour of use at which the light is 70 percent of that when first switched on—although a figure of 60 percent has been seen.

A rated life of 50,000 hours and an average operation of 10 hours a day will reach the end of that life in 14 years. An interesting exercise in maintenance is called for if a gradually fading lamp installed today is to be replaced in the year 2025.

What is the proper way to replace LEDs?

Some manufacturers require the complete luminaire to be thrown away at the end of the LED's rated life. Other professionals offer a replacement circuit board on which the LEDs are mounted. Care should be taken to ensure that it works in the same way as the circuit board it replaces without a change in the color or output.

Should one be concerned about heat?

Heat is the death of LEDs. If an LED gets hot, its light output will suffer—causing a shift in the light's color and even failure. A well-designed luminaire will have a heat sink. If the driver operating the LED gets hot, it will also suffer. Information provided with the luminaire should state the maximum ambient temperatures in which it will work satisfactory without affecting the life or color of the LEDs.

What should one look for in luminaire performance?

The ENERGY STAR® approval system identifies a high-performance luminaire. A lighting facts label has recently been introduced. Although it does not set a standard, it provides a quick and simple summary of luminaire performance by reporting its light output, efficacy, watts correlated color temperature and color rendering index. The lighting facts label enables LED luminaires to be easily compared.

New LED products and claims for them appear almost monthly. Current experience suggests that particular care should be taken when considering the LED claims intended to be direct replacements for tubular fluorescent lamps.

What is the future of LED lighting?

High price has been a barrier to the use of LED lighting. Fortunately, the price is steadily decreasing while the performance increases. The DOE has forecast that "the final stage in consumer acceptance of LED lighting will come when the initial cost drops to a level that's comparable with competing technologies, which many expect will happen between 2020 and 2025"

What are organic light emitting diodes?

An OLED is a large, almost paper-thin, flexible, self-luminous light source in which layers of polymers are sandwiched between two electrodes; sometimes being transparent. When a low voltage is applied to the electrodes, the polymers emit light.

Presently, OLEDs have limited use in applications such a sunder-shelf lighting—although interesting unique uses have been suggested. One such example are windows that are clear by day but have a colorful, luminous effect by night.

OLEDs lend themselves to large are light sources. One major contract, worth about US\$2 million, has already been placed to develop a ceiling system using OLEDs. The target date is 2012.

It has been forecast that the use of OLEDs will exceed that of LEDs.

Eastern Iowa IFMA 2009/2010 Programs

Date: September 14, 2010

Location: Lowe Park.
Marion, IA

Date: October 12, 2010

Location: Hon Industries
Muscatine, IA

Date: November 9, 2010

Location: Design Engineers
Cedar Rapids, IA

Date: December 14, 2010

Location: UI Campus Recreation & Wellness
Center
Iowa City, IA

Date: January 11, 2011

Networking Meetings
Location: TBD
Iowa City/Coralville, IA
Time: 12:00

Location: Biaggi's

Cedar Rapids, IA

Time: 5:30

Date: February 8, 2011

Location: GoDaddy.com
Cedar Rapids, IA

Date: March 8, 2011

Location: National Guard Armory
Coralville, IA

Date: April 12, 2011

Location: Van Meter
Iowa City, IA

Date: May 10, 2011

Location: TBD

*If a meeting is cancelled due to weather it may be held on June 14, 2011

October Membership Anniversaries

Joe Abdo, Exceed Services Corporation – 7 years
Philip Bonifazi, Bank of the West – 5 years
Andrew Dibbern, City of Davenport – 12 years
David Donovan, Scott County Courthouse – 16 years
Kerry Hansen, Triplett Corporate Interiors – 1 year
Larry Howard, John Deere Waterloo Works – 15 years
Julie Mitchell-Craig, Alliant Energy – 6 years
Julie Quebe, Gorden|Quebe LLC – 1 year
Mary Segriff, KOR – 6 years
Terry Shields, Alliant Energy Corporation – 22 years

Congratulations!!

Check out our website for new links to County Building Regulation websites. If your county is missing please let me know.

A link as also been added for quick access to the BOC website, a great place to find additional training options

<http://www.ei-ifma.org/resources.html>

New Members

James Kolf, Durrant
Rebecca Norton, Alliant Energy Coporation
Matthew Hansen, Ryan Companies

Welcome!!

IFMA Calendar of Events

2010

- | | |
|-----------------|--|
| Sept. 21-24 | Business of FM
Houston, TX |
| Sept. 21-22 | Advocacy Day & Public Policy Day |
| Sept. 30-Oct. 1 | CFM Exam Review Course |
| Oct. 5 – 6 | Leadership and Management Competency Course |
| Oct. 23-26 | Business of FM
Atlanta, GA |
| Oct. 23-24 | Finance Competency Course
Atlanta, GA |
| Oct. 23-24 | Leadership and Management Competency Course
Atlanta, GA |
| Oct. 23-26 | IFMA's 2010 Fall Symposium
Atlanta, GA |
| Oct. 23-24 | Operations and Maintenance Competency Course
Atlanta, GA |
| Oct. 23-24 | Planning & Project Management Competency Course
Atlanta, GA |
| Oct. 25-26 | Planning & Project Management Competency Course
Atlanta, GA |
| Oct 25-26 | Operations and Maintenance Competency Course
Atlanta, GA |
| Oct. 25-26 | Technology Competency Course
Atlanta, GA |
| Oct 25-26 | CFM Exam Review Course
Atlanta, GA |
| Oct. 25-26 | Leadership and Management Competency Course
Atlanta, GA |
| Oct. 27 – 29 | World Workplace 2010 Conference & Expo
Atlanta, GA |
| Nov. 9-10 | CFM Exam Review – Denver Chapter
Denver, CO |
| Nov. 9 -10 | Planning & Project Management Competency Course
Houston, TX |
| Nov. 9-10 | Operations and Maintenance Competency Course
Houston, TX |

2011

- | | |
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| Oct. 26 – 28 | Work Workplace 2011 Conference & Expo
Phoenix, AZ |
|--------------|--|

The IFMA education department is offering you *even more* opportunities to achieve your professional education goals.

See our website for more details
<http://www.ei-ifma.org/resources.html>

September Meeting Summary

Low Park

By Julie Quebe

The September meeting was held at the Low Park Arts and Environmental Center. We toured the grounds with Master Gardener, Devon Dietz. Devon shared the history of the George and Alyce Low family and their gift of the land to the city of Marion. Devon also showed us the green house that was built from a kit and shared their plans to grow flowers to be planted in all of Marion's parks and city planters. The site was developed to include gardens, demonstrational plots, prairie reconstruction, and an inviting, no restrictions, pond with water features and art suitable for climbing.

Inside RDG Architects and Marion Construct presented a slide show of photos taken during construction. The presenters highlighted green building elements and sustainable design features incorporated into the building to achieve the LEED Silver level certification.

The 16,800-square-foot project consists of meeting spaces, art and environment studio and gallery spaces, offices for staff and volunteers for Trees Forever. The building and site are intended to teach visitors how to apply sustainable design to their own situations. Unique features included a corn cob burning stove and a rotating wall that transforms the gallery / reception area into class room space.

The generosity of the Low family and the work of hundreds of dedicated volunteer have made this a unique and enjoyable experience.

The barbequed pulled pork sandwiches and sides from Brother's Catering in Cedar Rapids were delicious. The business meeting including drawings for a gift certificate to Biaggi's, a free meeting and a sit/stand stool donated by KOR. Lynnel if you aren't using that stool...



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