- Advocacy
- Information
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AIA/EIC eastwords

NEWSLETTER OF THE EASTERN ILLINOIS CHAPTER

October 2009
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President's Message

by Philip A. Radloff, AIA

Unfortunately the next AIA Illinois meeting is not until later this week, past the deadline for our newsletter, so the advocacy information and notes from that meeting will appear in next month's issue of "Eastwords." However, we do have a new state representative for our district. He was previously the Mayor of Chicago Heights; Representative Anthony DeLuca is now our representative, replacing incumbent George Scully. He was the representative that came to the last Springfield get together after our visit to the Capital. Representative DeLuca should be a good asset to our AIA/EIC chapter's goals, and I will look to schedule him for a presentation next year. He is very influential to the AIA renew and rebuild commitments of our local communities.

It's that time of year again for board member replacements and renewals. We will be looking for two or three new representatives for the board. Think about your service to the chapter. I know the time commitment is always an issue, but we can all fit in a couple of hours a month, which is all this requires. Contact me or Edvin (our next President), or any existing Board member to run for a position.

Mark your calendars now for our 2009 annual meeting, scheduled for 5:00 PM on December 6 at the Flossmoor Country Club. It is always a great meeting. This year wine and beer will be included for the first hour free, as at our monthly meetings. (Ed forgot about that last year.) Invitations will be coming out next month.

The speaker for our annual meeting will be Senator Maggie Crotty from Orland Park and Oak Forest, part of our Eastern Illinois district. She will speak about the remodeling and rehabilitation of the State Capital building; I am sure she will also speak about some other political positions she favors that serve the AIA/EIC. Edvin Mertdogan, John Benware and I had a personal tour of the capital building with her when we attended the advocacy day last year. She is very talkative and a great speaker. Look for her Bio in the next newsletter.

See you at the meeting.

Philip A. Radloff, AIA
EIC President

OCTOBER 21
CHAPTER MEETING

Program:
Sustainable Design Using Precast/Prestressed Concrete

Presenter:
Marty McIntyre
Sponsor:
PCI of Illinois & Wisconsin

*See page **5** for details.*

IN THIS ISSUE...

Rear View Mirror 2-3
Chapter Corner 4
Upcoming Meeting 5

Rear View Mirror

a review of the September 2009 chapter meeting

by Edvin Mertdogan, AIA, Vice-President AIA/EIC

T5 FLUORESCE SUSTAINABILITY LIGHTING TECHNOLOGY

Presenter: Richard Meek of Archibald & Meek Lighting

Our last chapter meeting featured Richard Meek as main presenter and dinner host, representing Archibald & Meek high performance lighting and control products.

Richard was accompanied by Marketing Manager Ashley, and Account Manager Jessica. During the six o'clock hour, they had a dazzling product light show-and-tell highlighting the applications for LED and T5HO fluorescent lights. Most of the LED lights were from the Juno Lighting group collection. This is one of the more than thirty manufacturers they represent for all types of lighting and control products. The fluorescent light fixtures were A*light products. Flashy LED and high output fluorescent light samples created great mood lighting and ambient accent lighting during our dinner.

Before the evening's main program began, Robert Bohlmann highlighted the upcoming AIA Illinois conference on November 5th in Bloomington-Normal. He recommended signing up and booking a hotel room soon, due to the simultaneous "Family Weekend" at the university; lots of parents and architects will be filling up the campus town.

Jim Prybys requested help from the group on behalf of one of the scholarship recipients. Robert Juris stepped forward to provide assistance for the student's thesis, which involves a downtown redevelopment project.

We then moved on to Richard's main program, consisting of a PowerPoint presentation with just the right mix of data, pictures, and video clips. Some of the animation clips showed the foot candle distribution in a typical open office/cubicle space under different lighting conditions.

The presentation's main focus was the T5HO fluorescent bulb and fixtures. The older fluorescent T8 and newer T5 are both gas-discharge lamps that use electricity to excite mercury vapor. The excited mercury atoms produce short-wave ultraviolet light that then causes a phosphor to fluoresce, producing visible light.

HO does not refer to the most popular type of model railroads at 1:87th scale; instead it stands for *high output*, because of special phosphors. High-output lamps are brighter, draw more electrical current, and have different ends on the pins so they cannot be used in the wrong fixture. Size-wise, the T8 bulb is a 1" diameter tube bulb (8/8 of an inch). The T5 is a narrower 5/8" diameter tube bulb (5/8 of an inch). The T5HO is 2.5 times brighter than a T8 bulb. It can pump out more light with less energy, thus making it an important energy-saving item on the sustainable design checklist. Fewer watts per square foot means less energy used.

(continued on next page)

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Rear View Mirror

...continued

Historically, lighting designers achieved a uniform lighted ceiling plane and work area (specifically in an office environment). But over time, with European influence, the interplay between shadow and light became more accepted and created a better work environment. (The aisles don't have to be as bright as the cubicle work surface). Placement of semi-indirect fixtures over the spine of the cubicle furniture achieved this dynamic goal.

Controlling lighting costs with a combination of day lighting (using light shelves), adjustable lighting with light sensors, and efficient light fixtures can save 30% of the building energy cost. That can help reduce your "energy usage footprint" by trying to use 0.7 watts per square foot.

Efficient and effective illumination can be achieved with selecting the proper light source, controlling brightness, and the right coefficient of luminance quality.

Following the IES RP1-04 recommendation for office lighting, controlling brightness can be done by diffusing light-preventing glare, spreading the source with diffusers, scattering the light using a 85% efficient microfilm (in contrast to an 50% acrylic cover), concealing the source, reflecting the light off ceilings or other furniture, and shielding the source.

Included in the parameters of the "Coefficients of Illuminance Quality" are energy consumption, biological/psychological feeling, and code requirements.

The fluorescent light is a mainstay that is being refined and redeveloped for better usage - reinventing the old workhorse.

We look forward to future presentations on LED lighting applications. If this doesn't answer all your questions that you didn't even know you had, feel free to contact Jessica Tsapralis at Jessica@amirep.com, or call 630-833-7377. Please visit their website at www.amirep.com

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AIA/EIC - UPCOMING EVENTS

Oct. 21 Regular Board & Chapter Meeting
Note - one week early!
Sustainable Design Using Precast and Prestressed Concrete 1.0 LU
Marty McIntyre, Precast/Prestressed Concrete Institute of Illinois & Wisconsin

Nov. 5-7 AIA Illinois Annual Conference
"Be Bold!" Normal, IL
Sign up on the AIA Illinois Website
www.aiail.org

Nov. 18 Regular Board & Chapter Meeting, 2010 Board Elections
Note - one week early!
Brick revisited: Just how green is it?
Leroy Danforth, 1.0 LU
Brick Industry Association

Dec. 6 Annual Dinner
(Formal invitations to be mailed)

Jan. 27 Regular Board & Chapter Meeting

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Upcoming Meeting ♦ Wednesday, October 21, 2009

Sustainable Design Using Precast/Prestressed Concrete - 1.0 continuing education LU/HSW/SD

Presenter: Marty McIntyre | Precast/Prestressed Concrete Institute (PCI) of Illinois & Wisconsin
P: (708) 386-3715 | F: (708) 386-5922 | www.pci-iw.org

Marty McIntyre is the executive director of PCI of Illinois and Wisconsin -- the association for all things precast in the two states. She has spent more than 20 years working in the construction industry. She was an editor of *Roads & Bridges* and *The Concrete Producer* magazines, and is the author of *The Cement and Concrete Reference Guide for Editors*, which she wrote when she was with the Portland Cement Association. She is a past-president of the Construction Writers Association, and a winner of its Silver Hardhat award. Marty has been the executive director of the Precast/Prestressed Concrete Institute of Illinois and Wisconsin since 2001 where her focus is on educating architects, engineers, and contractors about precast concrete design and construction.

Program: Sustainable Design Using Precast/Prestressed Concrete, 1.0 continuing education LU/HSW/SD

Sustainable Design Using Precast Concrete focuses on tips and tricks for improving the design of precast projects when sustainability is a goal. Looking at best practices, case studies, and industry research, the audience will leave the presentation with ideas about how to meet sustainable goals when using precast concrete. This program has been registered for the new AIA "Sustainable Design" credit.

- Discuss what sustainability is and why it's important.
- Explain how precast as a building material can contribute to sustainable structures.
- Explain the five key areas of sustainable design.
- Describe how precast can be incorporated into sustainable design strategies to achieve LEED credits.

Sponsor: Precast/Prestressed Concrete Institute (PCI) of Illinois & Wisconsin
Please visit their website at www.pci-iw.org or call (708) 386-3715.

Location: Tinley Park Holiday Inn Hotel and Convention Center
18501 Harlem Ave (I-80 & Harlem Ave/Rt. 43)

Time: 5:00 Board Meeting
6:00 Libation / Conversation / Open Bar / Sponsor product display
7:00 Dinner with announcements & word from our sponsor
8:00 Main Program Presentation

Cost: $30.00 / EIC Member $35.00 / non-AIA/EIC member

Menu: Creamy Forest Mushroom and Wild Rice Soup & Caesar salad
Herb Rubbed Loin of Pork with Roasted Garlic Demi Glaze*
Oven Roasted Garlic Red Potatoes and Seasonal Vegetables
Dinner Rolls, Chef's Special Dessert
Coffee, Decaf, & Tea

** Vegetarian (pasta) meals are available upon request. Please indicate your request for a vegetarian meal when making your reservation.*

Reservations by:
noon
Thursday
October 15th

Contact call list member or Edvin Mertdogan, AIA
AIA/EIC Vice-President
and Program Coordinator

Ph: (815) 806-0146 x13
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Payment required if cancellation after Monday noon.

AIA/EIC eastwords

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