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AIA/EIC eastwinds

NEWSLETTER OF THE EASTERN ILLINOIS CHAPTER

Oct. 2016
Issue 8.16
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President's Message

by Ron Weszelits, AIA

As I sat on my deck this past weekend, enjoying what seems to be the last of the spring weather, listening to the Cubs take part in some post season autumn baseball, my mind was not completely at ease. I couldn't help but dread putting away my outdoor tools, only to exchange my weed whacker for a leaf blower and my lawn mower for a rake. I watched the grill cover billow in the wind along with the leaves that had begun to change and fall to the ground. Although it may now be fall, it seems as though the season for yard work never changes.

However, the leaves are not only thing changing this autumn season. The time has once again fallen upon us to head to the polls and perhaps change the direction of the government. There are debates to be watched and pundits to tell us their expert opinion about how one candidate is better than the other. As the candidates bicker and claim they can make the most meaningful difference, in our nation, we must start to consider the differences to be made in our small part of the world that is the Eastern Illinois Chapter.



The election process reminds me that there still may be choices to consider in the leadership of this great land. These choices are made from long held beliefs or simply wanting to change direction; such is the decision making process when deciding on the design of a building. This can be a long arduous process with an abundance of details that need to be taken into account. However, before any process can begin, the most important decision needs to be made; the desire to build. Once the verdict has been decided, a team needs to be assembled to advise on the many choices to be made, from the size of the structure to be built and the cladding of the building, down to the smallest of details, which can consist of running the project to make sure there is a positive outcome.

Choosing the many parts and pieces that make up a building and its systems is a challenging part of the process, and with that come many hours spent on debating options. There is much collaboration with others that needs to take place as well.

continued on next page...

October 26, 2016

Chapter Meeting
Program:
What's In This Stuff!

Sponsor:
CBC America

Presenters:
Kimberly Lombardozzi

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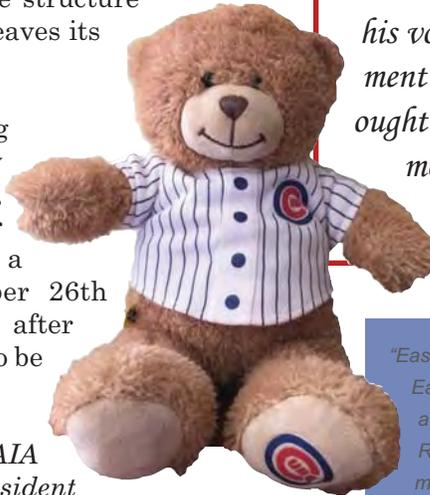
President's Message

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We can call on experts in the field to help make an informed decision, weighing all the pros and cons of any given product to substantiate any given choice. All of these choices will be put together to form the final product that will be judged by any who see the structure and interact with it as it leaves its mark on society.

In addition to reminding everyone to vote as early and as often as you can, our chapter has our monthly event including a CEU presentation October 26th and two more additional after hours CEU opportunities to be announced.

Ron Weszelits, AIA
EIC President



Samuel Adams, one of the original signers of the Declaration of Independence, reminded us of the staggering responsibility of casting a ballot.

"Let each citizen remember, at the moment he is offering his vote, that he is not making a present or a compliment to please an individual - or at least that he ought not so to do; but that he is executing one of the most solemn trusts in human society, for which he is accountable to God and his country."

"Eastwords" is the monthly publication of the American Institute of Architects/ Eastern Illinois Chapter. Opinions expressed are those of the particular author and not necessarily those of AIA/EIC. Submit articles to the editor, Roxanne Paukner, Hon. AIA, at rp.entasis@att.net. For advertising information, contact Edvin Mertdogan, AIA at emertdogan@yahoo.com.

2016 AIA/EIC CALENDAR

November

30 Regular AIA/EIC Meeting,
Flossmoor Station Restaurant

December

11 AIA/EIC Annual Meeting
and Holiday Celebration
Lake Katherine E.G. Simpson Clubhouse



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JAMES J. DOMZAL, AHC
President

Upcoming Meeting ♦ Wednesday, October 26, 2016

WHAT'S IN THIS STUFF!

Presenters: Kimberly Lombardozzi

Program: WHAT'S IN THIS STUFF! *Health Product Declarations - Ingredient Disclosure in the Commercial Marketplace and how it applies to LEED® v4*

LEARNING OBJECTIVES

- ✦ Explain the Health Product Declaration: how it was developed, why it is needed in the marketplace, and who are championing its use.
- ✦ Interpret the significance of material ingredient reporting to improve the specification process and refine the next generation of available products.
- ✦ Discuss the manufacturer perspective and concerns associated with completion of LEED v4-compliant HPDs.
- ✦ Identify 5 ingredients hazard warnings you can usually ignore.

COURSE DESCRIPTION

The Health Product Declaration (HPD) is a new tool for consistent product ingredient reporting. This session will provide an opportunity for attendees to learn how to read an HPD and how to identify a LEED v4 compliant HPD. We will discuss how the HPD creates a common language that is integrated into LEED v4, product labels, and product assessments. The session will provide attendees with a tool to guide discussions between manufacturers and consumers. The course will also provide advice toward developing self-directed research and a deeper understanding of the critical importance of transparency as a contributing factor for the ultimate success of the building industry.

Sponsor: CBC America

Location: Flossmoor Station Restaurant and Brewery
1035 Sterling Ave., Flossmoor, IL 60442
Phone 708-957-BREW

Time: 5:00 AIA/EIC Board of Directors meeting
6:00 Open Bar
6:45 Products and overview
7:00 Dinner
8:00 Presentation

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

Dinner selections are made at the restaurant.

Reservations by:
Monday, Oct. 24th

Click here

to register online, or go to:

<http://events.constantcontact.com/register/event?llr=tyssp-snlab&oeidk=a07edbofp2fea7a9cf2>

If you are unable to register online, contact **John**

Benware, AIA/EIC V.P. & Program Coordinator

jfbjr@jfbjr-architect.com or

phone 708-529-8346.

Payment accepted at the door with cash, check, or credit card.



Brewery Fish and Chips... Beer Battered fresh cod fillets served with coleslaw, homemade brew chips & Zephyr Golden Ale tartar sauce.

Brewery Burger... A big & juicy half-pound 100% Angus steak burger char grilled to your taste. Add your choice of two toppings. Served with homemade brew chips.

Brew Ben's Reuben... Lean shaved kosher-style corned beef, sauerkraut, thousand island dressing & Swiss cheese on grilled marble rye bread. Served with homemade brew chips.

Southwestern Steak Salad... Grilled veggies atop field greens with tomato, Cheddar cheese, black beans, red onions, roasted red peppers, grilled corn, grilled green onions & grilled flank steak. Served with a Chipotle ranch dressing.

Chicken Pot Pie... Chunks of chicken in a chicken gravy sauce, celery, onion, peas & carrots on a housemade biscuit.

Chicago Style Italian Beef Sandwich... Slow roasted top round Italian beef shaved, & served with provolone cheese on a French roll, with a side of au jus.

Ask your server for Giardiniera peppers.

Baked Mac & Cheese... Macaroni with a four cheese blend baked to perfection. Served with salad greens & garlic bread sticks. Add grilled chicken, beef brisket or Applewood smoked bacon.

Beef Brisket Sandwich... Slow smoked brisket on a Brioche bun, garnished with house made shoestring onions & a sweet gherkin pickle.

For Dessert... A scoop of delicious Vanilla Ice Cream.

Rear View Mirror

REAR VIEW MIRROR

a look back at our September chapter meeting

by Ron Weszelits, AIA/EIC President

Solatube Tubular Daylighting Devices

Presenters: Pamela Miller, Business Development Manager, Solatube International
Mark Stackle, VP of Sales, Solatube International

Mark Stackle and Pamela Miller were at last month's event to inform our members about Tubular Daylight devices that have been used in commercial and residential design for over twenty years.

There will always be expenses to run a business. Typically a company's greatest expense is its employees, and employees who work in daylight are more productive. Increased staff productivity can result in thousands of dollars in savings per year in productivity. Companies have also cited the reduction in error due to exposure to daylight. Stores that are day lit can show an increase in retail sales; stores with the most day lighting had the highest increases. The day lit stores appear to be bigger, cleaner, better organized, and overall more appealing. In addition to the positive effects on human performance, lighting has a positive effect on the overall building environment; lighting typically has the largest of the buildings utility cost. One 93-watt fixture that is replaced with a tubular daylighting device (TDD) can reduce 385 pounds of carbon dioxide emissions for coal based generation.

There are two daylighting strategies, which are side lighting and top lighting. Side lighting uses windows

to provide day light to a space, reducing the use of electric light and providing a view to the world. Side lighting is highly dependent on the orientation of the building. Daylight is only accessible from the perimeter of the space, leaving the interior of the space dark. Side lighting also has a high solar heat gain coefficient. Top lighting traditionally has been accomplished with skylights to reduce the electrical lighting. The skylights are independent of building orientation, and the daylight is more evenly distributed to the interior space. Traditional skylighting often requires five to ten percent of the roof area, is limited to the top floor of the building, and is challenging to reconfigure if the building purpose changes.

Tubular daylighting devices (TDDs) are used as a way to overcome the deficiencies of side lighting and traditional skylights. TDD's use optical technologies to capture more daylight at the dome, transfer the light long distances, and deliver it to any interior space. The tubular design and technological facets serve to provide a highly consistent and controllable source of light. The modular design also allows for architectural flexibility, allowing day light to nearly any space. In addition, the optical technologies used allow for the ability to have a *continued on next page...*

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Rear View Mirror

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smaller aperture area on the roof, which minimizes the impact to the roof structure. TDDs can offer maximum light performance with minimum solar heat gain, resulting in an unprecedented light to solar gain ratio. (Light to solar gain ratio is the ratio of visible transmittance to the solar heat gain coefficient of the fenestration product.) Advanced tubular day lighting devices can achieve a light to solar gain ratio as high as 3.0.

The technology zones that make up a TDD are the capture zone, the transfer zone, and the delivery zone. Daylight is captured at the dome on the roof, transferred through the tubing system, and delivered to the diffuser into the space below.

Starting at the rooftop, the dome captures and redirects daylight down the transfer zone. Effective light capture results in higher light output and overall better performance. The form and materials used to create the dome can greatly enhance the products effectiveness and longevity. TDDs vary greatly with the level of optics in the dome, and some have no optics. Domes without optics are designed to gather the maximum amount of daylight, which can result in not enough light at lower angles or too much light at higher angles. Advanced TDDs offer optical technologies in the dome that capture and redirect lower angle light, which can extend the amount of effective day-lit hours throughout the day and reject overpowering light and heat during problematic times of the year.

The second zone is the transfer zone, the tubing system that transfers the light from the dome to the diffuser at the ceiling. The most important aspect of the transfer zone is the reflectivity of the tubing system. The reflectivity of the interior of the tube affects the quality and volume of daylight transferred, which affects how long the tube can work and the color rendition of light that is transferred. With each bounce down the tube, overall light output decreases. The most commonly use tubing materials include corrugated, or flexible tubing, enhanced aluminum, enhanced silver, and non-metalized films. The corrugated typically have the lowest effective reflectance of approximately 84%, enhanced aluminum 95%, enhanced silver as high as 98%, and non-metalized

Mark Stackle and Pamela Miller informed the members about Tubular Daylighting and went over some of the Solatube products.



film as high as 99.7%. Although the difference in reflectance rating seems subtle, there is a significant impact on the light output of the TDD system as the tube length increases. The TDD with non-metalized has the highest light output of any tube length. Spectral reflectivity plays a key role in color rendition affecting the appearance of an object in a day-lit environment. The non-metalized tubing keeps the light pure in nature; because the surface is spectrally neutral it results in pure color rendition.

The final element of a TDD is the delivery zone, which includes the diffuser and optional daylight control. The diffuser integrates in the same way as a light fixture and uses lens technology to deliver and distribute the daylight from the tubing system. When specifying a TDD it is important to consider how the space is to be used and what level of light control the occupant will need. Some TDD systems even offer a dimming device, allowing the occupant to control the day light in the same fashion as an electrical light.

Tubular daylighting devices can be used as part of the overall daylighting strategy. There are different tools available to help in the design of TDD including photometric, IES files, and lumen output tables that provide the output intensity for specific product configurations. The light output is based on climatic conditions for geographic areas throughout the world. Photometry data is specific to each TDD product. Manufacturers provide other resources to easily incorporate TDDs into projects including case studies demonstrating the system benefits. ■

2016 AIA/EIC Golf Outing

by Ron Weszelits, AIA

The annual AIA/EIC golf outing was a success, with golfers out on the course beating the engineers and hitting some birdies. I did neither, but it was still a great day to be out amongst all of our members and guests that came to play a round of golf. The weather, although threatening rain for a better part of the day, held off. With the exception of a brief drizzle on the patio, we were left to enjoy the time golfing.



AIA Eastern Illinois

2016 GOLF OUTING
Friday, September 23, 2016

Event Sponsors

The American Institute of Architects, Eastern Illinois Chapter, would like to thank the following Event Sponsors for their extreme generosity with the 2016 AIA-EIC Golf Outing:

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Once again we were able to raise \$1,450 for our annual scholarship fund. Currently, we are still accepting applicants if anyone knows of a deserving college student. Dave Janney from Millies Engineering Group helped out again with “Beat the Engineer,” and raised \$278; there were a few golfers that were closer to the pin. Tony Gierczyk won the wireless internet camera in the drawing.

Gabe hocking and Tony Garcia Jr. both did an excellent job running and hosting this year’s event and deserve our gratitude for all of their hard work. Tony and Gabe were able to extend the cheery atmosphere to those who were lucky enough to

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2016 AIA/EIC Golf Outing

...continued



1.

1. Sarah Etcheson, Valerie Nawojski, and Ron Weszelits
2. Millies Engineering Group walking up to the green
3. Gabe Hocking awaiting the next shot

win a raffle prize. The other winners of the outing were Greg Kolinski with the low score, followed by Bill Hromada and Steve Lorenz, who had the longest drive and longest putt respectively. Congratulations are also extended to Steve Regan, who got closest to the pin.



2.

3.

It is just as important to commend our winners as it is to mention and thank all of our gracious sponsors listed on page six. These sponsors have supported our chapter and without them we would be unable to provide scholarships. Let's all let them know we appreciate them.

*Ron Weszelits, AIA
EIC President*



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