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AIA/EIC eastwinds

NEWSLETTER OF THE EASTERN ILLINOIS CHAPTER

Mar. 2016
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President's Message

by Ron Weszelits, AIA

It was a tough way to end the month of February. Unfortunately the weather took a turn for the worse on the afternoon of our monthly event, which caused many of our members to avoid what turned into a snowstorm in parts of our territory. I do know that better weather is coming, however, as the gas stations are stocking up with pallets of mulch. The road projects are also gearing up, especially my favorite, the widening of LaGrange Road. Spring also brings long dormant plants back to life as they spring from the ground, much like building projects that were silenced by the winter are brought back to life by the warming weather.

I look forward to being outside more, like many of you, I'm sure, and I'm thinking about many of the projects that should get done and many others that probably will not make the cut. The time for binge-watching episodes of *The Walking Dead* are over for now; I like to envision myself tidying up the lawn, spreading some seed on a few bare spots, and cutting down branches from the trees and shrubs. This time of year is definitely the time when projects of many sorts get started. It gives us vitality and invites

us outside to again think about what is fresh and new. As with most others, I try to have



at least one home project in mind to tackle every year. It does seem like the projects get more complicated every year with more choices and advancement in technology, but I must continue to keep up my home and better my understanding of the environment in which I live.

There are always plenty of these projects I'd like to get done and so many to choose from. Some I am forced to do simply by necessity, whether or not another project is in progress. I do, however, like to treat all projects with equal importance, how to approach it, time to devote to it and ultimately the cost and its return on investment. It is tough to decide from the projects and goals I have set, but it is important to have these goals. A huge sense of accomplishment can come from achieving them and some disappointment that more goals were not satisfied. It really doesn't matter the size of the project; they are all approached with the same attention to detail and research to get the best possible result.

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March 30, 2016

Chapter Meeting

Program:
Vinyl in Design

Sponsor:
MDC

Presenter:
Sarah Etcheson

See page 6 for details.

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President's Message

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The garage workbench always seems to be the first to get attention, since it gets cluttered during the year, and each spring the bench is cleared away for a new year of fixing, repairing and creating new projects. That is the one great thing about home ownership - there are always projects to complete. And I wouldn't have it any other way. This year ComEd has forced my hand early and has dictated my very first project of the season: to clear away and remove some deck boards so they can replace my electric meter with a smart meter. Hopefully the new smart meter will be smart enough not to be replaced again, but new technology may necessitate it. We must keep up with what is next!

*Ron Weszelits, AIA
EIC President*

The AIA/EIC Distinguished Building Awards are on display at Governor's State University during the month of March.

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Chapter Corner

Continuing Education, etc.

AN ADDITIONAL CEU OPPORTUNITY

will be held on

March 22

in the offices of the
Linden Group
6 p.m.

Presenter: Jim Nugent of ACH Foam Technologies

Program: How to Select
the Right Rigid Foam Insulation

Learning Objectives:

- Participants will discuss their process in choosing the right rigid foam insulation for their projects.
- Participants will evaluate all product limitations of all rigid foam insulation.
- Participants will compare and contrast all rigid foam insulation's R-value, water absorption, permeability, long term performance, and environmental impact.
- Participants will be able to analyze all the information presented to make design decisions related to choosing the correct rigid foam insulation.

This is not in place of our regularly schedule monthly event but is an *additional* CEU.

Registration link for Constant Contact:

<http://events.constantcontact.com/register/event?llr=yspsnlab&oeidk=a07ecdcg1zvc7c1157f>

2016 AIA/EIC CALENDAR

March

- 22 Additional CEU event
30 Regular AIA/EIC Meeting,
Flossmoor Station Restaurant

April

- 5 **Prairie Grassroots**
27 Regular AIA/EIC Meeting,
Flossmoor Station Restaurant

May

- 19-21 **AIA National Convention**
Philadelphia, Pennsylvania
25 Regular AIA/EIC Meeting,
Flossmoor Station Restaurant

June

- 24 **Summer Outing:**
Chicago White Sox vs. Toronto Blue Jays

July

- 13-15 Grassroots Advocacy Conference

September

- 23 **AIA/EIC Golf Outing**
28 Regular AIA/EIC Meeting,
Flossmoor Station Restaurant

October

- 26 Regular AIA/EIC Meeting
Flossmoor Station Restaurant

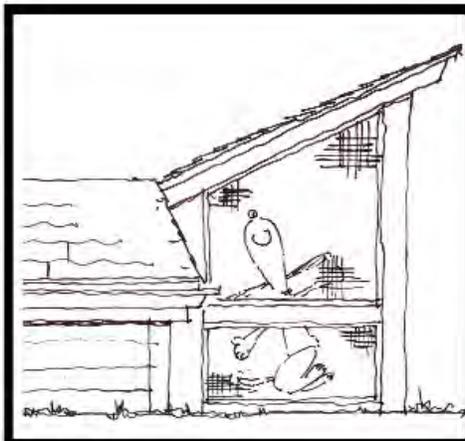
November

- 30 Regular AIA/EIC Meeting,
Flossmoor Station Restaurant

December

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

Obtuse ANGLES



CWC 03-2016

Rear View Mirror

REAR VIEW MIRROR

a look back at our February chapter meeting

by John F. Benware, Jr., AIA/EIC Vice-President

Roof Edge Performance & Testing

Presenter: Kevin O'Reilly

Sponsor: Hickman Engineered Systems

Roof edge technology has come a long way in a relatively short time, but not without a number of years of investigation and study, as mentioned by Kevin O'Reilly from OMG Roofing Products who was presenting to us last month. All of this culminated in what we now know today as the ANSI/SPRI ES-1 standard for roof edge technology.

The roof edge is universal but has many names; gravel stop, water dams, fascia, or even drip edge with 90 bend. There are three important functions that the roof edge performs, under any name. It is the effective termination and transition between the roofing and the building components. It is an important aesthetic feature and the only part of a low slope roof that is visible from ground level. Most importantly, it is the first line of defense against wind and water infiltration.

When the roof edge is done properly it can certainly enhance the façade, drawing the eye to the roof or parapet edge. But when done poorly, it can be an eyesore or, worse, may not be weather tight, causing damage to the building and becoming a liability.

Sometimes designers and specifiers want to specify to Miami Dade requirements where they are prone to hurricanes, but it doesn't always take hurricane force winds to cause damage. Some of the most recent hurricanes have led to advances in understanding the damage and how to avoid them. Straight line winds caused by thunderstorms have also caused damage, reaching 100 mph, as well as downbursts related to tornados and hurricanes. Even 45 mph winds can

cause damage to roofs if not done properly. A committee was formed because of these events, (The Roofing Industry Committee on Weather Issues). This committee sent out investigative teams to different areas and found nearly 95% of failures were due to poor workmanship or substandard materials, which was not surprising. Factory mutual, a private insurance company, additionally determined that the roof edge is the first line of defense against roofing failure. Factory mutual has determined 75% of all losses to buildings are roofing related and 69% of those are attributed to the perimeter. Standard specifications for materials used in the roof edge should be FM approved at a minimum.



Kevin O'Reilly presented roof edge technology to our group.

Standards for perimeter edge details started with SMACNA (Sheet Metal and Air Conditioning Contractors National Association), and relied on them to provide perimeter edge detailing. Then the NRCA (National Roofing Contractors Association) experts on roofing integrated the roofing with the perimeter edge detailing. Factory Mutual also had design considerations which were very labor

intensive and difficult to perform in the field. Finally the American National Standards Institute and the Single Ply Roofing Institute came together to form the standard for roof edge design, ANSI/SPRI ES-1, which has been a part of the IBC since 2003. This is a reference for those that design, specify, install and fabricate low slope roof edges. Based on ANSI 702, minimum design loads provides a very specific design calculation method for uplift pressures, and similarly prescribes very specific test methods.

The ANSI/SPRI ES-1 code can be met with the use of four pieces of information; the height of the building, the wind speed zone, the building exposure, which is the terrain surrounding

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Rear View Mirror

...continued from page 3

the building that will influence the exposure of that building to the wind, and the building importance factor. There are currently three different building exposures; Exposure B suburban, Exposure C open terrain and D Coastal. The Importance factor, which has four categories, can be defined by the following: Category 1-low hazard to human life such as manufacturing or agricultural buildings, Category 3- substantial hazard to human life such as convention centers or hotels, Category 4- essential facilities, hospitals, medical centers, and everything else is Category 2. This calculation can be done using a calculator on the SPRI website http://www.spri.org/pdf/Wind_Calculator.htm. This will provide two different design pressures. With this information the manufacturer can provide design considerations to see if it passes.

Kevin went on to explain that there are also three test protocols, Roof Edge 1, 2 and 3.

Roof Edge 1, for the fascia, pulls out at 45 degrees

Roof Edge 2, outward for fascia, pulls out and releases and repeats

Roof Edge 3, for copings, is bi directional, pulls up and out.

Other components for ANSI/SPRI standard are metal thickness, galvanic compatibility, appliances and substrate. The material for the roof edge also needs to be considered - aluminum or steel. Aluminum typically is easier to work with, does not oil can or sag nearly as much as steel, corners can be welded and custom colors easily done, and does not rust. Steel is slightly stronger pound for pound, slightly less expensive, but custom colors sometimes will require an entire coil to be done. Substrates wood, masonry or steel, the nailer must be properly secured to the substrate before the

Ron Weszelits Presented
Kevin O'Reilly with a
certificate of appreciation.

perimeter edge is installed.

Kevin summarized, saying when roof edges are designed and tested to resist the anticipated wind forces, you get better installed roofing assemblies. Without including the ANSI/SPRI ES1 code in the specification it is difficult to defend substitutions. ANSI/SPRI ES1 code establishes a minimum acceptable criteria for performance and is the code in every state for every building. To insure you are getting a quality code compliant roof edge, it is recommended that you include the ANSI/SPRI ES-1 in the specification and the contractor is held to that standard. Include the perimeter sheet metal into the roofing warranty, and simply ask for certificate of compliance for ES-1. ■



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MASTER® BUILDERS

Upcoming Meeting ♦ Wednesday, March 30, 2016

Vinyl in Design / A Modern Material for Modern Construction

Presenter: Sarah Etcheson

Sponsor: MDC, headquartered in suburban Chicago, is one of the world's largest sources of commercial wall designs and coatings. MDC stepped into the industry as a family-owned business almost fifty years ago and has become the wall designs leader in the United States. Today the company provides a broad array of products that suit the aesthetic preferences and functional needs of clients in the hospitality, healthcare, education, government, corporate and retail/store planning arenas. MDC's sister company, Winfield Thybony, serves the high-end residential market.

MDC's portfolio includes eco-friendly products, digital imaging solutions, paint/coatings, hand-crafted wall designs and panels, luxury textiles, foils, glasses, woods, and vinyls. The company is known for its ability to produce solutions that meet the needs of the design community.

MDC has earned a reputation for innovative products, value, and service. They were leaders in recognizing the creative potential of digital solutions and bringing them to the market. Actively involved in product research and development as well as ongoing, extensive training of their associates, the company remains in the forefront with new materials and technologies, and MDC's team of sales representatives are among the most knowledgeable in the industry.

Program: **Vinyl in Design / A Modern Material for Modern Construction**

Material science is fascinating and thought provoking. *Vinyl in Design* is an outreach and education program provided by The Vinyl Institute, Inc. to familiarize architects and designers with the range of solutions vinyl provides for today's design challenges. This is a materials class and not application specific. The objective is to educate design professionals about all aspects of a common and widely accepted material which is used in many building applications. The use of plastics in building and construction is on the rise. Vinyl is the largest plastic in building and construction. Since every project is likely to contain at least some vinyl, it is important to learn about this essential material.

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, March 28th

[Click here](#)

to register online, or go to:

http://events.constantcontact.com/register/event?llr=ty_spsnlab&oeidk=a07ecdjja4o554e9dc7

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.

"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.

Grassroots Leadership Conference Recap

John F. Benware, Jr. AIA

February 23-25 I attended the Grassroots 2016 Leadership Conference in Detroit, sponsored by AIA National. This was the first time the event was held outside of Washington, D.C. where it was combined with an advocacy component on Capitol Hill. This year it was held separately to focus exclusively on enhancing leadership skills of the next generation of architects.

The conference started Wednesday morning with an introduction by vice-president, Thomas Vornier, FAIA, followed by an update on the National Institute's public relations efforts by the Institute's CEO, Robert Ivy, FAIA. The next phase of the 'I Look Up' campaign is being moved forward. If you go to www.ilookup.org, you can see the television commercial that will soon be broadcast as well as a new digital campaign for members to include a new website in the next month or two.

Next was a panel discussion with Maurice Cox, FAIA, City Planning Director for Detroit, Bob Buckman, mayor of Tampa, Florida, William Bell, Sr., mayor of Birmingham, Alabama, Cheryl Morgan, FAIA from Birmingham, Alabama, Donald King, FAIA, from Seattle, and moderator Mickey Jacob, FAIA, 2003 AIA President. The topic was "What do cities need from architects?" The common theme was that architects need to get involved. Our expertise is needed on local boards and as the expert voice in matters of community development.

Josh Linkner, an entrepreneur and author, spoke on "Invention and Innovation – the New Leader." Josh talked about threats and opportunities. The cycle of failure to adapt leads to the failure to win, which ultimately leads to just failure. He talked of the need for every day innovation and the five obsessions of innovators: get curious, crave the 'what's next,' defy tradition, get scrappy, and adapt fast.

Following the morning keynote presentations were leadership workshops. The first one I attended was



called "Great Board, Great Direction." The topics included the purpose of a board, how to distinguish governance from management, setting strategic direction and realistic goals, and strategies for protecting against risk.

During lunch there were presentations on five waterfront projects in Columbus, Detroit, San Antonio, Seattle, and Washington, D.C.

The afternoon included more leadership workshops. I sat in on "Speak Like a Pro." The goal was not to teach public speaking from scratch, but gave tips and advice to improve one's speaking skills and technique.

Regional meetings were held in late afternoon. Attendees from Illinois got together to review state level matters.

Topics discussed included the Master Class on March 13th, our own Prairie Grassroots to be held on April 5th, Illinois Architecture Week the week of April 10th, and a call for nominations for the state awards program. The biggest topic was the problem with the state not paying the dues for NCARB. This mess has the possibility of making life difficult for the architecture community in Illinois. NCARB will meet to discuss the issue in April, and possibly vote to suspend services in June. This would mean recent graduates and associates completing IDP will not be able to take their exams, Illinois architects will not be able to transmit their records to other states for reciprocity, and other architects will not be able get reciprocity in Illinois. Hopefully none of this will come to pass.

The evening reception was held underneath the painted murals at the Detroit Institute of Arts.

At the next day's breakfast presentation Hugh Hochberg talked about business topics, including the attributes of highly successful firms. These include being practitioner-led, having highly effective leadership, management not to excess, focusing on multiple goals, and value-based fees. Successful firms understand their client's world, focus on the right clients, have an effective startup

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process, strive to get the right answer quickly, and have a short time for delivery.

I attended the workshop on “Developing People Skills.” This showed how to identify different leadership personality types and their primary motivators and strengths. Knowing this can be helpful in working together.

Lunch session began with an introduction of candidates for national office, including our own Peter Exley, FAIA, running for an At Large Director position. Each candidate for Secretary and VP spoke and responded to questions, followed by an open Town Hall style discussion to ask questions of the national executive board members.

The final keynote address was given by Jennifer Granholm, former governor of Michigan. Her highly entertaining speech covered a number of current political issues in the upcoming election. She concluded the conference by giving her take on the upcoming opportunities for architects to be more involved in the process and become positive community leaders. ■



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