

air barrier
abaa
association of
america

BUILDING 20
ENCLOSURE 24
CONFERENCE

RESTON, VIRGINIA
MAY 7TH & 8TH

AIA
Continuing
Education
Provider



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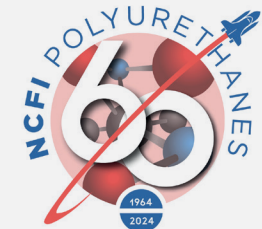


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Information

HYATT REGENCY RESTON

AT RESTON TOWN CENTER

May 7-8, 2024 at the Hyatt Regency Reston
(1800 Presidents Street, Reston, VA 20190)

IN THE AREA

Restaurants

Capital Burger - Onsite

North Italia - 2 min

True Food Kitchen - 2 min

Sixty Vines - 2 min

Potbelly - 3 min

Ted's Bulletin - 4 min

Jacksons - 4 min

Jinya Ramen - 6 min

Morton's - 6 min

The Counter - 6 min

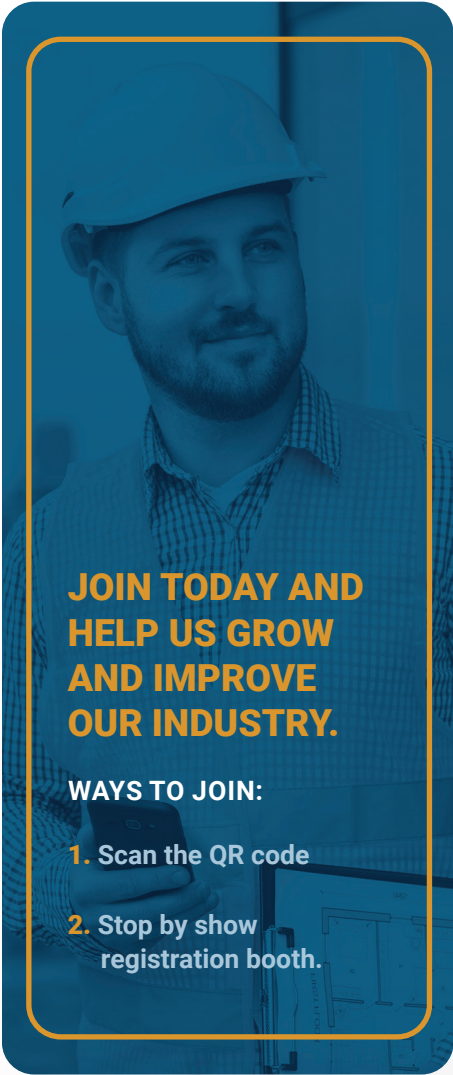
Outdoor Activities

Reston National Golf Course - 1.2 MI

Lake Fairfax - 3.5 MI

Reston Zoo - 3.2 MI

Frying Pan Park - 5.1 MI



**JOIN TODAY AND
HELP US GROW
AND IMPROVE
OUR INDUSTRY.**

WAYS TO JOIN:

1. Scan the QR code
2. Stop by show registration booth.

Who is ABAA?

We Are You, The Members

The Air Barrier Association of America (ABAA) is a national, not-for-profit trade association that consists of a wide cross section of stakeholders in the building enclosure industry.

Our membership include manufacturers, architects, engineers, trade contractors, researchers, testing & audit agencies, consultants and building owners.

ABAA is the national voice of the air barrier industry and has raised the level of quality in the industry through a Quality Assurance Program and offers premier training, certification, product evaluations, contractor accreditation and site quality control audits.

ABAA's mission is to promote the use and benefits of air barrier systems, educate the public about air barrier systems and develop a professional air barrier specialty trade and industry dedicated to the installation of effective air barrier systems in buildings on a nationwide scale.

Why Join ABAA?

ABAA Member Benefits

ABAA's mission is to promote the use and benefits of air barrier systems, educate the public about air barrier systems and develop a professional air barrier specialty trade and industry dedicated to the installation of effective air barrier systems in buildings on a nationwide scale.

When you join ABAA as a member, you will benefit from:

- Industry Leading Quality Assurance Program
- ABAA's Quality Assurance
- Industry and Trade Events
- Professional Development
- Information/News
- Learning Best Practices
- **And many more benefits!**



**BUILDING
ENCLOSURE
CONFERENCE**



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america



Quality Assurance Program Excellence

ABG Caulking & Waterproofing of Morristown
Alcal Specialty Contracting, Inc.
Bradleigh Applications, Inc.
Brant Freeman & Associates, LLC
Jaco Waterproofing

J. P. Larsen, Inc.
Spray Foam Technologies of KY
Standard Waterproofing
Summit Insulation & Contracting

ABAA QAP AWARD

This award is presented to ABAA Accredited Contractors who has successfully completed a minimum of five site audits and been assessed a total of zero demerit points, both to the installer and contractor.

OUR MOST PRESTIGIOUS AWARD GOES TO

Summit Insulation
& Contracting

Royals Commercial
of Maryland, LLC

The criteria to win this most prestigious award of the association really divides the best-of-the best in the world of contractors. We encourage our contractors to be that - and win this award.

This award is presented to an ABAA Accredited Contractor who has a minimum number of audits (10 per year for 2 years, totaling 20) with a minimum percentage (95%) of audits without any demerits.

We lost our dear friend Peter in 2020. Not only was he ABAA's QAP Director and Trainer, but he was also a dear friend to all. He was a part of ABAA since inception back in 2001 and trained thousands of installers, working closely with many of our contractors, manufacturers, auditors, and anyone that needed help. He was with the association the entire time ABAA has existed.



To honor Peter, his work ethic, and the quality of installers he encouraged all his students to become, a new award category has been created in Peter's name. It stands for everything Peter would have wanted – the highest level of professionalism and installation by our contractors.



By The Numbers

Building Quality, Reducing Risk,
and Mitigating Moisture

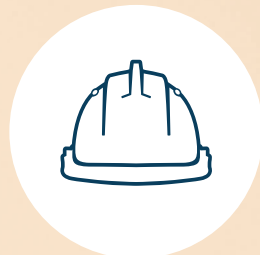
91 Million

Sq. Ft. of QAP Audited Air Barrier Installation



23,000+

QAP Specified
Projects



2,705

Certified & Registered
Installers



6,800+

Audits



123

Certified Products

General Information and Reminders

CONFERENCE MEDIA PARTNERS

Architect's
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CoatingsPro™
M A G A Z I N E



Name Badges

Don't forget to wear your ABAA Conference issued name badge. All attendees are required to have a name badge to attend this conference. Please use your name badge to gain access to all meals, activities, keynotes and sessions.



Photography

Photos will be taken throughout this event. ABAA reserves the right to use these photos for the promotion of future ABAA events and/or social media.



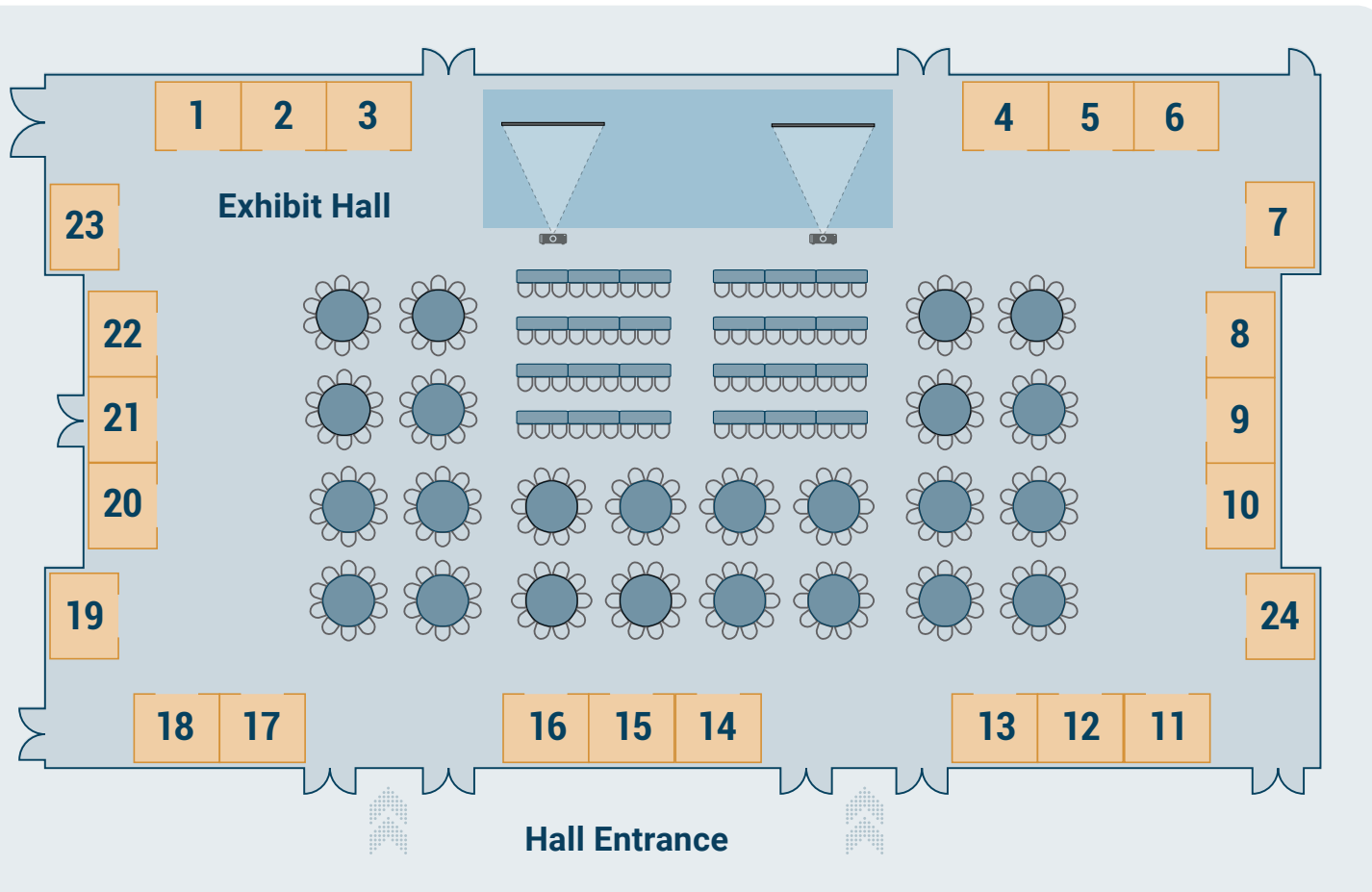
Get Social

Stay connected to the latest industry innovations and events. Find us on Facebook, Twitter & LinkedIn. Also make your way to our website or scan the QR code and sign up for our popular and free industry webinars and newsletter.

Convention Map

Exhibitor Booths





- 1 Protecto Wrap
- 2 RIB
- 3 Dupont
- 4 Vaproshield
- 5 Element Materials Technology
- 6 GCP

- 7 DOW Silicones
- 8 W.R. Meadows
- 9 Rmax
- 10 Terracon
- 11 Siplast
- 12 TRUFAST Walls

- 13 Retrotec
- 14 York Manuacting Inc.
- 15 Georgia-Pacific
- 16 Moisture Intrusion Solutions
- 17 Master Wall Inc.
- 18 Dörken Systems

- 19 Intertek
- 20 Tremco CPG Inc.
- 21 WTI/Canam Building Enclosure Specialists
- 22 Soprema Inc.
- 23 Polyglass
- 24 Prosoco
- 25 Henry, a Carlisle Company
- 26 Emseal
- 27 3M
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- 30 ABAA
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- 38 RAiNA
- 39 ABAA Contractors Corner

AIA Continuing Education Provider

Continuing Educational Credits

Educational presentations are registered to provide learning units and HSW credits. You will receive one credit per one hour of the presentations you attend.

Attend all two days and be eligible for 11 AIA LU/HSW's.



Track Concentrations

To ensure you get the most out of the conference, we have created two tracks and color-coded these tracks throughout this booklet. Please make a note of the color below to know which sessions will be most applicable to you. Attendees are not bound by specific tracks and can attend any presentation they are interested in.

Track 1

Track 2



Approved
Continuing
Education



Whole Building Airtightness Program Is Here!

The purpose of the ABAA Blower Door Technician Training Program is to educate both entry-level and more experienced blower door technicians on the planning, preparation, and execution of airtightness testing for commercial and large buildings in conformance with industry standard test methods.

The training aims to equip blower door technicians with the knowledge and skills necessary to appropriately evaluate, prepare, test, analyze, and report on a building's airtightness performance. The ABAA Blower Door Technician Training Program is a 40-hour training program delivered over 5 days by subject matter experts retained by ABAA who are guided by detailed lesson plans. In addition to receiving instruction from experienced experts, the trainees will also have the opportunity to plan and carry out simulated building airtightness tests on physical mock-ups during the training program.



5 DAYS OF INTENSIVE TRAINING

Join the waitlist

www.airbarrier.org/wba/



Agenda

Tuesday May 7TH

Grand Ballroom



08:00 AM **Opening Remarks: ABAA Initiatives, Goals**
08:30 AM **and a message from our Platinum Sponsor**

08:30 AM **Future Ready Design Considerations for Building Enclosure Design**
09:30 AM Paul Totten

09:30 AM **BREAK**
10:00 AM

10:00 AM **Building Enclosure Vulnerabilities in Commercial Construction**
11:00 AM Sarah Rentfro & Sierra Stewart

11:00 AM **BREAK**
11:15 AM

11:15 AM **ABAA UPDATES &**
12:00 PM **ABAA AWARDS CEREMONY**

12:00 PM **LUNCH**
01:15 PM

BUILDING ENCLOSURE CONFERENCE 2024

Tuesday May 7TH

Grand Ballroom

01:15 PM **“What If”: A Review of Case Studies to Aid in Low-Slope Roof Systems Selection**
02:15 PM Kristin Westover & Andrea Wagner Watts

02:15 PM **BREAK**
02:45 PM

02:45 PM **Peeling Back the Onion**
03:45 PM Nathan O. Taylor

03:45 PM **BREAK**
04:00 PM

04:00 PM **Building Envelope Case Study from Initial Constructability Review Through Occupancy**
05:00 PM Corey Zussman

06:00 PM **BOARD MEET & GREET: CAPITAL BURGER “Onsite”**
09:00 PM

08:30 AM
09:30 AM

Invisible Improvement: Air Tightening an Office in a Historic Timber Pier
Jeff Speert

09:30 AM
09:45 AM

BREAK

09:45 AM
10:45 AM

Challenges of Building Envelope Airtightness Testing Using Only a Portion of a Building
Stephen Wong

10:45 AM
11:00 AM

BREAK

11:00 AM
12:00 PM

Resolving Complex Geometries for Iconic Towers: Combining Unitized and Stick Built Curtain Wall Systems in High-Rise Designs
Manan Raval

12:00 PM
01:00 PM

LUNCH

01:00 PM
02:00 PM

Diagnosing Air Leaks in Building Enclosures
Mike Poirier

02:00 PM
02:15 PM

BREAK

02:15 PM
03:15 PM

The Key to a Successful Project: Preconstruction Building Enclosure Co-ordination Meetings
Derek Ziese

03:15 PM
03:30 PM

BREAK

03:30 PM
04:30 PM

A Case Study in Enclosure Coordination: How the Academy for Global Citizenship Achieved Passive House Air Leakage Rates
Leonard Sciarra & Steve Black

08:30 AM
09:30 AM

Building Expansion Joints: When Movement and Air Tightness must go Hand-in-Hand

Rena Kwon & Josh Hakimian

09:30 AM
09:45 AM

BREAK

09:45 AM
10:45 AM

Re-thinking Your Insulation Strategies

Len Anastasi

10:45 AM
11:00 AM

BREAK

11:00 AM
12:00 PM

What is High Temperature?

Benjamin A. Meyer & Luke Geoffrion

12:00 PM
01:00 PM

LUNCH

01:00 PM
02:00 PM

Buildings Move, Buildings Leak: Revisiting the Critical Link Between Engineering Mechanics and Enclosure Performance

Jon Porter

02:00 PM
02:15 PM

BREAK

02:15 PM
03:15 PM

Glazing Systems: I have been doing it this way for 30 years, it's gotta be right!?

Adam Ugliuzza & Jeff Dalaba

03:15 PM
03:30 PM

BREAK



Agenda

Installer & Auditor Training



FROM

MAY 7-9

COURSE LENGTH

3 DAYS

(May 9 will be at an off-site location to offer hands-on practical training for Installers and Auditors).

08:00 AM
04:00 PM

Self Adhered and Fluid Applied Training
ABAA

ROOM
Lake Thoreau

08:00 AM
04:00 PM

Spray Polyurethane Foam Training and Field Auditor Training
ABAA

ROOM
Fairfax A & B

WUFI Pro Workshop

FROM

MAY 7-8

COURSE LENGTH

2 DAYS

Advanced WUFI Workshop

FROM

MAY 9-10

COURSE LENGTH

2 DAYS

08:00 AM
04:00 PM

WUFI(R) Hygrothermal Modeling Software Workshops
Andre Desjarlais of ORNL (Oak Ridge National Laboratory)
Achilles Karagiozis of National Renewable energy Laboratory (NREL)

ROOM
Lake Audubon

Agenda

Committee Meetings

Thursday, May 9TH

Light breakfast, lunch and coffee breaks are being provided on the third day of the conference (committee meeting day).

08:00 AM 09:30 AM	Research Sarah Flock & Andrew Dunlap	ROOM Lake Anne
08:00 AM 09:30 AM	Marketing Matt Nelson & Craig Wetmore	ROOM Lake Thoreau
10:00 AM 12:00 PM	Technical Andrea Wagner Watts & Cody Shelner	ROOM Lake Anne
10:00 AM 11:00 AM	Education and Training Matt Hollingsworth & David Holtzclaw	ROOM Lake Thoreau
12:30 PM 01:00 PM <small>(WORKING LUNCH)</small>	Transitions, Terminations, and Flashings Ad Hoc Group Adam Ugliuzza & Craig Wetmore	ROOM Lake Anne
11:30 AM 12:30 PM <small>(WORKING LUNCH)</small>	Contractors Matt Giambrone	ROOM Lake Thoreau

08:30 AM - 09:30 AM

Grand Ballroom

Future Ready Design Considerations for Building Enclosure Design



Paul E. Totten, PE, LEED AP
WSP, ARLINGTON VA



In an ever-changing climate, with advances in materials and requirements for better long term durability and resiliency, enclosures are being asked to sustain more over the long term. From storm risk, to flooding and increased heat and propensity to radiation, the detailing of systems requires additional thought process.

Using building science, whole building system knowledge, and in depth experience in detailing of systems, the speakers will use project examples of how we can better prepare our building enclosures to be future ready. They will discuss simple solutions that can be implemented, as well as methodologies of designing details. They will provide examples from numerous climate zones within the US, covering sectors such as office, mixed-use, specialty buildings, health care, science and technology and sport facilities. They will offer up new ways to look at data included in hygrothermal and thermal modeling of enclosures. They will discuss changes needed within the building code and the importance of climate considerations in the code.

Scan QR code for complete description, learning objectives and presenter bios.

10:00 AM - 11:00 AM

Grand Ballroom

Building Enclosure Vulnerabilities in Commercial Construction



Sarah Rentfro, P.E.
SIMPSON, GUMPertz & HEGER,
WASHINGTON DC

Sierra Stewart, P.E.
SIMPSON, GUMPertz & HEGER,
WASHINGTON DC



Given ever increasing performance demands of commercial building enclosures, combined with increasingly sophisticated installation and tie-in details, careful scrutiny is required to mitigate vulnerabilities that can contribute to long-term recurring performance issues such as air and water leakage, condensation, and thermal inefficiencies.

In addition to management of design vulnerabilities, successful building enclosure performance requires careful oversight and management of construction vulnerabilities, including those associated with installation and workmanship, trade coordination and sequencing, and implementation of quality assurance/quality control (QA/QC) programs. Having a holistic understanding of how various building enclosure systems interact with one another, as well as manufacturer's requirements and common QA/QC and diagnostic tools, can help project teams achieve buy-in from all parties involved, proactively mitigate risks of building enclosure failures, and troubleshoot issues that arise during construction. This presentation will utilize case studies to explore common building enclosure vulnerabilities in commercial construction and proactive mitigation measures based on our design consulting and construction administration experience as well as our experience investigating building enclosure failures.

Series of horizontal lines for handwritten notes.

01:15 PM - 02:15 PM

Grand Ballroom

“What If”: A Review of Case Studies to Aid in Low-Slope Roof Systems Selection



Kristin Westover, P.E., LEED AP O+M
GAF, PARSIPPANY, NJ

Andrea Wagner Watts, LEED Green Associate
GAF, ARLINGTON, VA



Scan QR code for complete description, learning objectives and presenter bios.

It’s just a roof, right? And buildings or designs never change. Not quite.

Roofing plays an important role in protecting the building from the elements as well as insulating to preserve occupant comfort. With a wide variety of roof systems used on commercial buildings, selecting low-slope roofing assemblies can be complicated.

Starting with four unique roofing case studies to review design team considerations and decisions, we will ask the infamous question “What if?”. You will leave this interactive session with a better understanding of best practices in low-slope roof system design and selection, including ways to establish air tightness, reduce moisture intrusion, and lower the overall risk of failure to ensure you are able to appropriately evaluate design change requests on your next project.

02:45 PM - 03:45 PM

Grand Ballroom

Peeling Back the Onion



Nathan O. Taylor, CSI, CDT
DTR CONSULTING SERVICES,
ROSEVILLE, CA



An in-depth dive into a leak investigation at a high school Industrial Arts and Horticulture Building that snowballed into a remedial architecture project and then escalated further with discoveries that raised structural red flags and created an expansion to the original scope of work.

While investigating water damage, additional nonconforming conditions were uncovered and additional areas had to be opened, revealing even more questionable building practices. In the end, the structure of the south façade was replaced, as well as 1/3 of the roof structure, and the entire building was “re-skinned”. Due to the nature of the failures, this project also became a case for litigation.

This presentation is presented as a Case Study that covers the timeline of the project from the initial investigation, the layers of additional discoveries, the remedial design, and the construction process while briefly covering the litigation that followed. Throughout the timeline, each layer of the onion is pulled back for discussion, as well as to inform attendees of how each of those issues was overcome.

Series of horizontal lines for taking notes.

BUILDING ENCLOSURE CONFERENCE 2024

May 7TH

BOARD MEMBER MEET & GREET

All are welcome to drop by this casual get-together where you can have one on one chats with the board members and enjoy a variety of complimentary cocktails and appetizers.

CAPITAL BURGER

06:00 PM - 09:00 PM

Ground Floor @ The Hyatt Regency Reston

11853 Market Street



02:15 PM - 03:15 PM

Grand Ballroom

The Key to a Successful Project: Preconstruction Building Enclosure Coordination Meetings



Derek Ziese, P.E., BECxP, CxA+BE
GALE ASSOCIATES, INC.,
TOWSON, MD



Scan QR code for complete description, learning objectives and presenter bios.

An air barrier is a system of materials designed to control the flow of air between conditioned and non-conditioned spaces. While air barriers have been incorporated into wall assemblies for decades, it is important to note that the building envelope includes all sides of the building, including the exterior walls, the lowest-level floor, and the roof or ceiling assembly.

Once additional sides of a building are included the detail becomes a challenge because not only is there a transition between air barrier materials, but there are also different trades involved, and sequencing becomes important.

This presentation will review the importance of a preconstruction coordination meeting in identifying material transition ownership and installation sequence. The presentation will review how the buy-out process of the sub-contractors can impact the air barrier detailing. The speaker will review case studies and lessons learned from the "by other" syndrome. The speaker will also identify potential gaps between trades that are likely to require further coordination.

03:30 PM - 04:30 PM

Grand Ballroom

A Case Study in Enclosure Coordination: How the Academy for Global Citizenship Achieved Passive House Air Leakage Rates



Leonard Sciarra, AIA, AS-HRAE, CPHC, LEED f/ap+
FARR, CHICAGO, IL

Steve Black
POWER CONSTRUCTION, CHICAGO, IL



Join Leonard Sciarra (FARR) and Steve Black (Power Construction) as they showcase the Academy for Global Citizenship, a 70,000 square foot, two-story K-8 school located on the Southwest Side of Chicago.

The school achieves the air tightness required to achieve both Living Building Challenge and PHIUS 2021. The team will discuss strategies employed and challenges faced from design and procurement to construction and site observation. Attendees will learn about the multiple types of envelope components, designing for complex geometries, and penetrations through different materials.

The team will discuss the communication and strategy involved in managing a large project with multiple trades—coordinating their overlap in a seamless way to ensure proper envelop enclosure.

The school, part of the Chicago Public School system, was delivered on budget and in a shorter timeframe than a typical CPS school, with a high percentage of local, Minority and Women-owned contractors.

Enhance your **credibility**
Consult with more **clients**
Stand out from your **peers**

Become a **Certified Air Barrier Specialist** Today!



Registration and exams are
available **OnDemand 24/7.**

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air barrier
abaa
association of
america

08:30 AM - 09:30 AM

Regency Ballroom

Building Expansion Joints: When Movement and Air Tightness must go Hand-in-Hand



Renae Kwon, RA
WISS, JANNEY, ELSTNER AND ASSOCIATES INC., NORTHBROOK, IL

Josh Hakimian
WISS, JANNEY, ELSTNER AND ASSOCIATES, INC., NORTHBROOK, IL



Building expansion joints are a necessity to accommodate differential movement between structures to prevent damage to both the structure, as well as building cladding and finish systems. Expansion joints within the realm of the building enclosure can be some of the most complicated detailing within a project; however, many times there is simply not enough information at the time the design documents are prepared to provide a completely integrated system. This is particularly true when a new structure is to be constructed adjacent to an existing structure where as-built conditions are not known.

Further, multiple subcontractors/trades are often involved. How is an expansion joint concept turned into a constructable air, water-tight, thermal and fire-rated system that is both continuous at transitions, fully integrated with adjacent systems, and still accommodate necessary movement, sometimes in multiple directions? Additionally, who is responsible for taking the design concept to this level of detail; the design of record, the manufacturer, the contractor(s), the enclosure consultant, a collaboration of these entities?

Using two case studies this presentation will outline both challenges and solutions to tackling complex building expansion joints...

Scan QR code for complete description, learning objectives and presenter bios.

09:45 AM - 10:45 AM

Regency Ballroom

Re-thinking Your Insulation Strategies



Len Anastasi, FABAA, CSI, CDT,
WUFI® Certified, WUFI® Advanced Certified
EXO-TEC CONSULTING, INC.
WEYMOUTH, MA



Many people in the construction industry involved with the design of exterior wall assemblies rely on the prescriptive requirements of the International Building Energy Code (IEC) in designing exterior wall assemblies. What could be wrong with the strategy of complying with prescriptive code requirements? Actually, a lot.

This presentation will address the shortcomings of the IEC's prescriptive requirements and show through hygrothermal analyses when compliance with such requirement can result in exterior wall assembly failures, discuss why they fail and offer solutions to avoid such failures.



LEARN & EARN

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Photo courtesy of Sto Corp.



Next Level Cladding with Resin Cast Shapes

- Sponsored by Sto Corp.
- Earn: 1 AIA LU/HSW; 1 IIBEC CEH; 0.1 IACET CEU

Photo courtesy of Rmax



Polyiso CI: The Optimal Air and Water-Resistive Barrier Solution

- Sponsored by Rmax
- Earn: 1 AIA LU/Elective; 1 IIBEC CEH; 0.1 ICC CEU; 0.1 IACET CEU

Photo courtesy of Siplast Building Enclosure



Designing Walls for Control of Air, Water, Thermal, and Vapor

- Sponsored by Air Barrier Association of America (ABAA)
- Earn: 1 AIA LU/HSW; 1 IIBEC CEH; 0.1 IACET CEU

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Simply view the webinars or read the articles and complete the short quizzes to earn your credits. Most states now accept AIA and/or IACET credits for professional continuing education requirements. Check your state licensing board for all laws, rules and regulations to confirm.

Join our brand community to receive all the Building Enclosure updates and opportunities!





SEAL THE ENVELOPE™

*A Solution to protect your building
from roof to wall to foundation*

With weather-hardened products backed by a single warranty and protect all 6 sides of your building from more than just the predictable.

