

Spring Education Seminar - 20 April 2023



IIBEC Mid-Atlantic Chapter

1625 Eye Street Suite 700
Washington, DC 20006

The IIBEC Mid-Atlantic Chapter Spring Educational Seminar scheduled for **Thursday, April 20, 2023** is quickly approaching. We are looking forward to a stimulating and informative gathering.

1. Roofing Wind Speeds: ASCE 7, Uplift Ratings and Warranties

Presenter: Brian Chamberlain - Carlisle Construction Materials

About the Presentation: In the industry, there is a need to sort out the confusion between building codes, uplift rated assemblies, and warranties by explaining what each offers and how they should be considered. To understand the building code, we need to review how uplift is determined and the industry's accepted rating method of roofing assemblies for comparison. After understanding the code criteria, discussion will focus on how roofing warranty wind speed coverage is regarded by the industry and building code will be reviewed for clarity.

Learning Objectives:

- Review the changes within the latest version of ASCE 7.
- Realize the difference in how warranty wind speeds are handled by roofing manufacturers and what to watch out for so the building owner receives the most comprehensive coverage.
- Learn the basic design process for choosing the correct roofing assembly.
- Understand how roofing assemblies are tested and rated for uplift pressures.

About the Presenter: Brian Chamberlain has been with Carlisle Construction Materials since 1987. He graduated from the University of Wisconsin at Milwaukee and earned a bachelor's degree in the Science of Architectural Design. Brian has been assisting architects, consultants, and specifiers on assemblies focusing on performance, sustainability, and resilience. He is part of a team responsible for assemblies, details, and code-testing. He has presented technology information throughout the U.S., Canada, and overseas, offering information on unique design issues.

2. Design and Detailing Air Barrier Transitions at Fenestrations

Presenter: Derek Ziese, P.E., BECxP, CxA+BE - Gale Associates, Inc.

About the Presentation: The use of rainscreen cladding systems has become commonplace in today's building construction. The detailing required for rainscreen systems, in relation to the numerous fenestration types and configurations, to provide an air and watertight seal can cause confusion for the designer which can lead to improperly specified or detailed assemblies. The rainscreen concept places an increased importance on the air barrier and wall flashings as a weatherproofing system which must drain and expel moisture specifically at interruptions in the plane of the facade such as at fenestration locations. The overall relationship of the cladding, insulation, air barrier, flashings and fenestration must be considered in the design as compatibility, functionality, and constructability of the transitions may dictate different fenestration configurations and/or air barrier transition materials. This presentation will provide an overview of the most common rainscreen, air barrier, and fenestration assemblies with specific focus on performance principles and detailing requirements.

Learning Objectives:

- Understand basic rainscreen principles and the air/weather barrier function and requirements.
- Understand differences between various fenestration systems and their specific tie-in requirements.
- Understand air barrier to fenestration transition pitfalls through case studies.
- Learn methods to avoid pitfalls such as preconstruction meetings, mockups, testing, etc.

About the Presenter: Derek Ziese is a Project Manager with Gale Associates in their Building Enclosure Commissioning and Consulting Group. Mr. Ziese performs evaluations of existing buildings, provides design and construction consultation for new builds, and provides enclosure commissioning services to a variety of public and private clients to include architects, developers, contractors, and various governmental organizations.

3. Demystifying the Fly-By Curtain Wall Parapet

Presenters: Sam S. Zalok, P.E and Maria Raggousis, P.E.- Simpson Gumpertz & Heger

About the Presentation: A fly-by curtain wall parapet is a facade element that protrudes above the roof line and must be integrated air and watertight with the roofing assembly. Fly-by curtain wall parapets are often desirable on amenity roof decks because they can function as both a railing and a facade element. During this presentation, Maria Raggousis, PE and Sam Zalok, PE will describe the components of a fly-by curtain wall parapet, explain how it is different from typical curtain wall parapets, define components and differences between a stick-built curtain wall and unitized curtain wall which both may be used in a fly-by curtain wall parapet, describe options for roofing base flashing tie-in to curtain walls, and look at project examples to discuss lessons learned.

Learning Objectives:

- Identify the requirements of a parapet in order to function as a railing.
- Compare the differences between a stick-built curtain wall and a unitized curtain wall.
- Describe options for roofing base flashing tie-ins with the curtain wall to prevent air and water infiltration.
- Discuss the coordination efforts that take place between the designer, curtain wall manufacturer, curtain wall installer, and roofer during the design and construction administration phases of a project that include a fly-by curtain wall parapet.

About the Presenters: Sam Zalok belongs to SGH's Building Technology group in the Washington, DC office. He is experienced in new building enclosure design and consulting, building enclosure leakage investigations, and building enclosure rehabilitation designs, including below grade waterproofing systems, masonry and flashing systems, and roofing systems for new construction, roof replacement design, facade rehabilitation design, and plaza waterproofing design.

Maria Raggousis joined Simpson Gumpertz & Heger Inc.'s technical staff in the Washington, DC office in 2018 after graduation from Drexel University. She is a member of the Building Technology group and she consults on building enclosure design, rehabilitation, and investigation projects for owners, architects, and general contractors, specializing in thermal and hygrothermal analysis to predict, mitigate, or reduce moisture-related damage to building enclosures.

4. All of the Above: Unburdening Overburden Considerations for Commercial Roofing

Presenters: Kristin M. Westover, P.E., LEED AP O+M - GAF

About the Presentation: Once thought to be a "burden" for a roofing system, overburden benefits are increasingly emerging as a roofing advancement that's here to stay. This presentation explains why selection of the overburden system is only part of the design; selection and design of the roof membrane is critical for a long-lasting performance.

Learning Objectives:

- Define what is meant by overburden on a rooftop and differentiate between various overburden options such as vegetative roofs, blue roofs, blue-green roofs, and purple roofs.
- Understand roofing considerations for rooftop solar PV arrays.
- Recognize how selection and design of the roof assembly is critical for a long-lasting overburden installation.
- Review roof assembly design considerations including membrane thickness and color, roof attachment method, presence of a cover board, the importance of continuous control layers, and roof details and flashings.

About the Presenter: Kristin M. Westover is a Technical Manager of specialty installations for low-slope commercial roofing systems at GAF. She has experience with a wide variety of projects in the civil engineering consulting industry specializing in repair and restoration of existing buildings, primarily for commercial buildings and high-rise residential structures. She is currently part of the Building and Roofing Science Team where she works with designers on all types of low-slope roofing projects to review project design considerations so designers can make informed roof assembly decisions.

APRIL 20, 2023 - EVENT SCHEDULE

8:00 -- 8:30 Registration and Sign-up
8:30 -- 10:00 Presentation
10:00 -- 11:30 Presentation
11:30 -- 12:00 Lunch Break
12:00 -- 1:30 Presentation
1:30 -- 3:00 Presentation



Attendance to all four presentations is worth a total of six (6) IIBEC Continuing Education Hours

Registration and payment with PayPal is preferred.

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For specific questions or additional educational program information, please contact:

Education Chair, Caroline Byrne at cfbyrne@sg.com <mailto:ncrouse@drhroofsolutions.com>