

# 13<sup>th</sup> Annual Building Enclosure Event

Tuesday, February 23, 2016

## High Performance Building Enclosures: New Materials, Innovation and Lessons Learned

Join members of the design and construction community as Graham Finch, MAsC, P.Eng, discusses how the design and construction of high performance buildings, driven by Passive House, LEED and other energy efficient building programs are becoming increasingly popular across North America. As a result, the construction industry is starting to see many new and innovative building enclosures being incorporated into the full spectrum of building types ranging from non-combustible high-rises, to taller wood-frame buildings and single family homes. These more thermally efficient, air-tight, and durable building enclosure designs have evolved from existing North American practices with new materials that have been introduced into the market in recent years. These new materials include air barrier membranes, tapes & sealants, thermally efficient cladding supports, unique fasteners, and insulation products.

This seminar will provide an in-depth overview of many of the new and innovative building enclosure designs that are being designed and constructed in North America with a focus on more thermally efficient, durable and air-tight walls and roofs. New and cutting-edge research will be presented on the evaluation of exterior insulation cladding supports to minimize thermal bridging along with the tested real-world performance of various new air barrier systems. This seminar will provide insight as to where these new building enclosure components and assemblies work best along with the limitations of certain products, providing insight into how best to incorporate them on a project.

Numerous case studies will be presented to demonstrate how new and innovative building enclosures have been integrated into various projects ranging from towering concrete and steel structures, to mid-rise wood-frame buildings and pre-fabricated passive houses.

**Continuing Education:** 2.5 AIA/CES/HSW LU, 2.5 PDH

### Learning Objectives :

- Recognize how changes to energy codes and the uptake of energy efficient building design programs including Passive House are influencing building enclosure designs across North America.
- Investigate the design and construction of innovative high performance building enclosures from several new construction and retrofit projects across the USA and Canada.
- Discuss new and emerging cladding support systems for exterior insulated walls and understand how to evaluate the available approaches and select a suitable system for projects.
- Learn about new air barrier and water resistive barrier materials, how they work, and where they work best; and understand how to evaluate and incorporate them into projects.



**Graham Finch, MAsC, P.Eng**

*Principal, Building Science Research Specialist  
RDH Building Science, Vancouver, BC, Canada*

Graham is a Principal and Building Science Research Specialist with RDH Building Science. He has a passion for technology and for making better and more energy efficient buildings. He leads RDH's building science research group and is actively involved in a wide range of projects from building research studies to forensic investigations, building monitoring, hygrothermal modeling, and new construction across North America. Graham has authored several publications

and practical industry guideline documents related to durable and energy efficient building enclosures. In addition to working at RDH, Graham is a part-time instructor of Building Science at the British Columbia Institute of Technology.

**Location:** Maggiano's, 516 North Clark Street, Chicago, IL 60654

**Registration:** By February 16, 2016 (or until sessions are full)

CSI Chicago Members & Industry Partners: \$48, Non Members: \$55

**Breakfast Session:** 7:15 AM Registration, Buffet Breakfast & Tabletops 7:45 AM – 10:15 AM Program

[REGISTER NOW-Breakfast Session>>](#)

**Lunch Session:** 11:30 AM Registration & Tabletops; 12:00 – 2:30 PM Lunch & Program

[REGISTER NOW-Lunch Session>>](#)

Presented by



*Chicago Chapter, Founded 1953*

- **For 12 years, this event has featured expert national and international Building Enclosure industry practitioners and researchers.**
- **Each year architects, contractors, engineers, manufacturer representatives, owners, project managers, specification writers, and other design and construction professionals have benefited from the technical knowledge presented.**
- **Take advantage of this high level presentation to earn continuing education credits.**
- **Make your reservation early to assure your attendance as this event is expected to fill to capacity.**

### Co-Sponsors:



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