

# Improving Building Envelope Performance: Roofs, Walls, and Windows

Hosted by INSPEC

Gary C. Patrick, AIA, RRC, Benjamin Bertram & Nick Hall, CDT



Tuesday, March 16, 2010

7:30 AM – 1:15 PM

DoubleTree Guest Suites, 1500 Park Place Boulevard, Minneapolis, MN 55416



**Program Cost - \$40/person**

(includes continental breakfast & lunch)

*Registration Deadline is Wednesday, March 10, 2010*

7:30 - 8:15 **Registration & Continental Breakfast**

8:15 - 8:30 **Welcome and Program Introduction**

## SESSION 1

8:30 - 9:30 **Going Green in Roofing**

Gary C. Patrick, AIA, RRC

Is it easy going green in roofing? Green, or sustainable, roofing has characteristics including long-term performance, environmental sensitivity, and energy efficiency. Learn how sustainable aspects are incorporated in design, during construction, and with maintenance of roofing, and what the initial, long-term, maintenance, and possible replacement costs are. Examples of sustainable or green roofing will be presented, including low-slope, steep, and vegetated roofing using the latest technology.

9:30 - 9:45 **Break**

## SESSION 2

9:45 - 10:45 **Modern Cavity Walls: The Importance of Through-Wall Flashing**

Benjamin Bertram

Masonry walls have undergone significant design changes over the last several decades. The thick, solid masonry walls of yesteryear have given way to today's modern cavity wall systems. Discover how each of these wall systems performs differently with respect to water absorption and subsequent drainage, as well as discussion regarding the most critical

component of your cavity wall - a properly designed and installed through-wall flashing system. We will delve into the various components of a through-wall flashing system, their significance and materials available, while examining some common failures that may enable water to infiltrate your building.

10:45 - 11:00 **Break**

## SESSION 3

11:00 - 12:00 **Proper Design and Detailing of Window Systems**

Nick Hall, CDT

Several factors need to be considered when designing window systems for either new construction or a retrofit scenario. Successful design includes specifying a window system with proper performance characteristics and detailing that clearly illustrates the intent of the design and the accessory components needed to incorporate the window system into the adjacent exterior wall system. We will discuss the process of selecting a window system, the associated differences in window system performance, and some tools utilized in developing the detailing for a window system. Throughout the discussion, we will also touch on performance considerations that could aid in improving your building's energy efficiency.

12:00 - 1:15 **Ask the Experts Luncheon**

Lunch with speakers and staff experts will provide an opportunity to ask questions specific to your areas of interest.

For more information, please call 952.928.4646 or email [info@mnconstruction.org](mailto:info@mnconstruction.org)

Name(s) \_\_\_\_\_ Company \_\_\_\_\_

Phone \_\_\_\_\_ Address \_\_\_\_\_

Payment

Check # \_\_\_\_\_

Visa  MC  AMEX CC# \_\_\_\_\_ EXP \_\_\_\_ / \_\_\_\_

**RETURN REGISTRATION WITH PAYMENT TO:**  
MCA | 4248 Park Glen Road | Minneapolis, MN 55416  
Phone (952) 928-4646 | Fax (952) 929-1318

**Registration  
Deadline is  
March 10<sup>th</sup>**