

‘Fundamentals of Building (Enclosure) Science’

Ever wondered how the products selected for the building enclosure affect the performance of the building and its life cycle? What is the big hype about building science and why is it important to understand the basic principles when designing, selecting, and constructing the building enclosure? What you do not know can hurt your building and the sustainability of the structure.

This course covers the fundamentals of building science and how it impacts building performance, specifically emphasizing the science behind the enclosure. This is part one of a three-part series that teaches the basic understanding of the building enclosure sciences. A basic mix of physics, material science, meteorology, construction technology, physiology, and engineering analysis will be introduced. Building science principles as they relate to the enclosure will be discussed, such as the control of heat, water vapor, air, moisture and interior air quality.

At the conclusion of this presentation the participant will have gained:

1. An introduction to building enclosure assemblies
2. A fundamental understanding of the basic principles of building science
3. An understanding of how materials affect the building envelope and how the enclosure affects the materials
4. An introduction to control layers and why they are important
5. Basic clarification of common myths assumed by the design team, construction team and owners

Course Title: *‘Fundamentals of Building (Enclosure) Science’*

Credit Designation: 1.0 AIA CES, LU/HSW

Presenter:



Melissa Payne, BECxP, CxA+BE, CDT
BEC-Ozarks Regional Chapter, Chair
SWMO CSI Chapter, Board Member

Building Envelope Consultant –
Forensic Investigator
Miller Engineering, P.C.

melissa@millerstructures.com