

Accelerator Day 2023 Courses

Friday, June 16

9:00 AM -
10:00 AM

Designing for the Unified Stormwater Rule

1 LU | HSW

Provider: AKRF, Inc.

Speaker: Justin Seeney

New York City published its Unified Stormwater Rule amendments to the Rules of the City of New York in February 2022, thereby changing its requirements for how stormwater is managed by architects and engineers on all new and redeveloped properties that discharge to municipal sewers. Among other changes, these amendments align stormwater quantity and flow rate requirements with the city's water quality requirements; extend the Department of Environmental Protection's permitting, inspection, and enforcement program from only MS4 areas (i.e., separate sewer system) to CSS areas (i.e., combined sewer system); encourage development projects above a certain size to deploy green stormwater infrastructure practices; and allow for greater flexibility in the design of stormwater management facilities while simplifying the rules and making them consistent throughout the five boroughs. This course will provide an overview of the Unified Stormwater Rule and its applicability to the siting, planning, and design of new construction, renovation, and adaptive reuse projects in New York City.

10:15 AM -
11:15 AM

Choosing the Right Framework for Sustainable and Resilient Structures

1 LU | HSW

Provider: American Institute of Steel Construction

Speaker: Jonathan Tavarez

Close your eyes and picture it in your mind: what characteristics would your project have? Is there an ideal construction material? On a typical project, multiple materials are utilized, but when we start to consider what an ideal construction material would be, it provides us with a framework to evaluate the major materials in use today. Today, sustainability is just as important as it has been, but resiliency has become part of the equation as well. This course will discuss the sustainable and resilient characteristics of structural steel and compare those characteristics to those of wood and concrete.

11:30 AM -
12:30 PM

Fundamentals of Room Acoustics in Common Applications

1 LU | HSW

Provider: AKRF, Inc.

Speaker: Nathaniel Fletcher

Acoustical design has been a consideration in the built environment for thousands of years. However, aside from amphitheatres, cathedrals, and concert halls, the topic of room acoustics did not achieve much ubiquity in architectural design until about 100 years ago, when Wallace Clement Sabine redesigned the acoustics of Harvard's Fogg Lecture Hall. Since then, architects and acoustical consultants have discovered the far-reaching benefits of acoustical design in supporting a space's intended programming and fostering its users' comfort and wellness.

The benefits of interior room acoustics have been so well-documented and researched that the U.S. Green Building Council, the Facility Guidelines Institute, the International WELL Building Institute, and other organizations have begun to provide guidelines for room acoustics design in common applications. Understanding room acoustics and how it relates to room programming and occupant health, safety, and welfare will help enhance successful design. Excessive reverberation can result in increased noise levels, which have been correlated to reduced speech intelligibility, academic performance, and occupant comfort, and is correlated with increased stress, sleep disruption, and vocal effort. In addition to sustained increase in vocal effort negatively affecting vocal health, epidemiologists have begun to establish a connection between increased vocal effort and the spread of certain diseases, including COVID-19.

This course will explore the intersection between physics and acoustical perception (psychoacoustics), develop fluency with industry-specific standards and terminology, increase awareness of the impact of room acoustics on end-user health, safety, and welfare, and apply the principles of room acoustics to architecture and design. We will consider industry standards and best practices that drive acoustical design and review some common acoustical design approaches used to address these standards.

1:30 PM -
2:30 PM

Electrification & Its Impact on Residential & Commercial Domestic Water Heating

1 LU | HSW

Provider: Venco Sales

Speakers: Diane Cabral & Corey Auerbeck

In this course, you will learn about current decarbonization efforts in New York State and at the federal level. From there, the course will delve into the impacts of these changes and the product technology that is available and being developed to provide solutions in residential and commercial buildings.

2:45 PM -
3:45 PM

A Complete Approach to Rainscreen Design

1 LU | HSW

Provider: STO Corp

Speaker: Kate Abudarham

This course presents the complete design approach to rainscreens and explains why rainscreens are important for building envelopes and enclosures. This course emphasizes the use of control layers to maximize the performance of a drained, backed-ventilated rainscreen system for both new and existing buildings. The audience will be able to identify different rainscreen technologies and understand why a complete approach is beneficial to a building's performance. They will also learn about the relationship of control layers of the exterior wall assembly to occupant health and safety. Finally, the course will review the design approach using real-world project examples.

4:00 PM -
5:00 PM

EIFS - Combining Performance and Aesthetics

1 LU | HSW

Provider: STO Corp

Speaker: Daniel Canova

We will demonstrate how exterior insulation finishing systems EIFS offers superior moisture protection, thermal properties, and durability and meet the most stringent energy codes. While other claddings claim to be full-system, they only provide one or two layers of the building enclosure. EIFS is the only system that incorporates all the control layers of the building envelope while allowing the architectural community to custom design the final look of the project.