ATS CONTINUING EDUCATION
ONLINE_SEMINAR
Building Envelope - Pacific & Mountain Time Zone
Thursday, May 05, 2022

08:00 AM Welcome, Credits, and Certificates

08:05 AM **Chemistry in Context - Material Science in Building & Construction**

Architecture, Engineering, and Construction (AEC) professionals are asked to make informed materials decisions on an almost-daily basis - decisions which call for a foundational understanding of how those materials are made and their potential impact on the building's health, sustainability and resiliency. This course helps architects, engineers, designers and contractors navigate the complexity of materials selection by providing an overview of the role of chemistry in enhancing the product and building performance. The course provides a review of key methodologies for measuring benefits and relevant information to help inform product selection. Further, it provides a primer on how chemicals are regulated in the marketplace.

Jack Armstrong
American Chemistry Council (ACC) Provider #: 50111254
AIA #:ACC-303 HSW | GBCI (USGBC/CAGBC) #:920023810

09:05 AM **Review of Session Code Process**

09:10 AM **Specifications Strategies to Eliminate Concrete Moisture**

In many projects, installation of floor finishes is one of the items to occur prior to substantial completion. However, 09 flooring specification sections require moisture testing before flooring can be installed on concrete slabs. When those moisture tests fail, the project faces time delays, unexpected costs, or both. During this presentation, we will: (1) give significant discussion to the importance of design intent and how losing focus on what the owner expects can lead to catastrophic, consequences (2) examine several misconceptions associated with field moisture testing and project owner and design team liablility associated with concrete moisture induces flooring failure; and (3) we will give clear recommendations as to how the specifying professional can eliminate concrete moisture as a project delivery issue while simultaneously protecting the project owner and design team from project delivery delays/cost overruns and future failed flooring.

Dean Craft
ISE Logik Industries Provider #: 404108239
AIA #:ISL03H HSW

10:10 AM Break

10:20 AM Sponsor: QWEB (Quebec Wood Export Bureau) - Eli Gould
Eli graduated with one of the first dual Architecture/Forestry degrees from Yale in the early '90s, with a conviction that the two fields would eventually be more linked. After a quarter century, this seems more true and even mainstream, but for many years it was an entrepreneurial effort in the small vertical wood prefab companies he ran in Vermont, and in the automated timber industry where he often consulted. For the last three years, Eli has brought those experiences into a nonprofit market development role for QWEB. When he's not trying to transform the AEC industry into a positive climate force he enjoys small town and organic farm life in Vermont with his family.

10:30 AM **Wood Glazed Facades in Net-Zero and Passive Buildings**

Architects and LEED professionals understand the numerous benefits of building with wood. But, many are unaware of its application in a timber curtain wall (TCW). Today's technology provides opportunities to incorporate the beauty and energy-efficiency of wood into glazed facades that not only bring the outdoors in but also serve as the building's heavy lifter. This course will present the differences between a conventional curtain wall and a timber curtain wall (TCW) including load-bearing and non-load-bearing capabilities as well as net-zero and passive building. We will also show example of projects using TWC.

Jim O'Connor
A construction executive and building envelope professional with a focus on architectural facades, windows, and high-performance cladding & rainscreen systems. Experienced with architectural structures, building envelopes and luxury residential & high end commercial building products. Experienced management executive with an understanding of construction practices and installation techniques. Possessing strong solution-oriented and outcomes based selling skills and the ability to develop strong relationships with Architects, CMs, General Contractors, Building Envelope Consultants, and Subcontractors.
Unicel Architectural Corp Provider #: 404109249
AIA #:IC2tech2020 HSW | GBCI (USGBC/CAGBC) #:920019926

11:30 AM **Designing For Fire Safety**

When considering the building enclosure, fire safety is an important design factor and needs to be considered hand-in-hand with energy code requirements. By developing a better understanding of how the material and systems testing standards for fire safety can impact the overall design, architects and designers can confidently and freely design spaces that could save lives in the event of fire.This presentation will review common fire standards including NFPA 285 test standard. It will outline the criteria for compliance, as well as identify triggers and contributors under the different standards. Participants will review how the selection building components such as insulation, air/water resistive barriers, claddings finishes, can affect the fire performance of an assembly, and identify solutions and common paths for compliance.

Pamela Sadler
Rockwool Provider #: K269
AIA #:RWNA210501 HSW

12:30 PM Lunch

01:00 PM **Sustainable Exterior Envelope**

This course focuses on the effect biological and physical agents have on the wood substrate of the exterior building envelope. After reviewing these agents, you will learn how proper installation and best building practices can limit the exposure these agents can pose to your project. Durable wood substrates will also be discussed with a comparison of popular man-made durability agents used to further protect the exterior envelope.

Dave Rogers
WindsorONE Provider #: T109
AIA #:ExtEnv2020 HSW | GBCI (USGBC/CAGBC) #:920026001

02:00 PM **Understanding Wood Aesthetic Cladding and Soffit Technologies**

This learning unit will provide an in-depth overview of current “wood” design technologies natural and synthetic. - Identify current market “wood aesthetic” technologies - Understand the core materials of each technology - Understand the sustainable features and Life Cycle benefits for each technology based on the following criteria: Color Retention, Maintenance & Warranty - Describe the surface burning characteristics and explain how they can be specified to achieve code compliance - Installation Details - Budgetary Information

Yancey Hughes
Hughes & Associates Provider #: L161
AIA #:GL2020CS HSW

03:00 PM End