ATS CONTINUING EDUCATION
ONLINE_SEMINAR
Carbon-Neutral Building Solutions - North America
Wednesday, August 16, 2023

12:00 PM Welcome, Credits, and Certificates

12:05 PM **Sustainable ESG-Grade Building**

Whether you're a developer, architect, engineer building contractor, ESG expert, asset manager, real estate professional, program administrator, organization, company, individual or project owner you will gain useful triple bottom line value and practical know-how for immediate and translatable sustainability solutions from this session.

Andrey Felipe Burrell
Pre Impact Provider #: 406119285
AIA #:PI23ESG HSW

01:05 PM *Review of Session Code Process*

01:10 PM **Durable Timber: Designing for the Life Cycle of Embodied Carbon**

Architects have always had to adapt to a variety of performance indicators like energy use for their buildings. Recent years have seen a complex shift towards embodied carbon as an indicator. This shift has occurred without a full understanding of the principles of life cycle analysis (LCA), that go into the data sets for carbon. The rise of mass timber has fueled a broad interest in wood and bio-sourced building materials as a potential carbon storage solution. However, there is a real difficulty of capturing complex and regional variations in the simple frameworks of most carbon comparisons. There are competing agendas, methodology, and data presented to specifiers from all sides. Even the best advocates for timber must be humble about the range of variables while defending their choices of regenerative natural building materials. This course starts by helping the modern architectural practice to understand key definitions and principles of carbon calculation metrics and life cycle analysis. It then moves into specific comparisons that highlight the unique attributes of wood, with learning objectives demonstrating the effect of design for durability and biogenic carbon.

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.
QWEB (Quebec Wood Export Bureau) Provider #: 502111360
AIA #:DurableTimber HSW | GBCI (USGBC/CAGBC) #:920027550

02:10 PM Break

02:20 PM **Hotel Marcel & Sinclair Hotel-A case study on Hotel Energy Efficiency**

In the last few years, two hotels in the US stand out regarding hotel efficiency, the Hotel Marcel and the Sinclair Hotel.

The Sinclair Hotel installed low voltage lighting and other technologies with state of the art technology and lowered the overall cost of their overhead by over 35% percent.

The Hotel Marcel took this one large step further and is the first net-zero energy hotel. Both of these hotels are registered as historical buildings.

This presentation focuses on the low voltage technology that is making it happen!

Glenn Collinge
FSR Inc Provider #: J721
AIA #:FSR729 HSW

03:20 PM **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.

Sergiy Kholodov
Unicel Architectural Corp Provider #: 404109249
AIA #:Unicel5WGFNZ23 HSW

04:20 PM End