



07:45 AM [Welcome, Credits, and Certificates](#)

08:10 AM **Benefits of Ultra Low Permeability Concrete in the Building Envelope – An Integ. ... Approach.**

The exceptional durability of portland cement concrete is a major reason why it is the world's most widely used construction material. But material limitations, design and construction practices, and severe exposure conditions can cause concrete to deteriorate, which may result in aesthetic, functional, or structural problems. The Portland Cement Association prescribes proper concrete coverage of reinforcing steel and a Low Permeability concrete mix design as the primary goals for "Best Practice". A talented, seasoned contractor is the answer to the first.....Vapor Lock enhanced concrete may be a reasonable answer to the second.

Scott Bergsbaken
 SPG (Specialty Products Group) Provider #: K540
 AIA #:SPG003 HSW | GBCI (USGBC/CAGBC) #:920014710

09:10 AM **Making Sense of Sealants**

Participants will learn about the different families of sealants and how to choose the correct product for each application. We will discuss the effect of UV light on sealants and the difference between structural or non structural silicon sealant. And finally, the importance of surface preparation before sealing joints.

Nicolas Choquet
 Adfast Provider #: 404109250
 AIA #:AdfSealant2020 HSW | GBCI (USGBC/CAGBC) #:920010342

10:10 AM [Break](#)

10:30 AM **Design an Effective and Sustainable Building Envelope With Spray Polyurethane Foam**

Participants will learn about: • The history, Actual generation, and polyurethanes classification • Standards: CAN/ULC S705.1 Material • CAN/ULC S705.2 Application • Quality Assurance program / Certification, CUFGA • Physical Properties of Polyurethane Spray Foam • Long term thermal resistance (LTTR) Initial value • Test Reports: CCMC Evaluation #13244-L • AIR INS Inc. Water vapor permeance testing & Air barrier materials testing • Dr. John Straube, Results for wood framing construction with spray foam, without vapor barrier • Exterior insulation basement system, NRC Summary Report • Adhesion quality, CMHC report Explanation of typical conception details for Polyurethane Foam How to build an effective and sustainable building envelope with minimum materials, Environmental criteria, Leed and Sustainability

Dale Hall
 Huntsman Building Solutions Provider #: J593
 AIA #:SPF201 HSW | GBCI (USGBC/CAGBC) #:920010268

11:30 AM

Specifying Automatic Pedestrian Doors

Specifying Automatic Doors – Realize the importance of including automatic entrances in a specification.

Types of Pedestrian Automatic Doors - Assess the contributing factors involved with determining which automatic door application would work the best for different installations and settings.

Door Sensors - Understanding basic sensor technology

Code Requirements – Obtain knowledge on the codes, standards and definitions related to automatic entrances.

Kayle Moore

TORMAX Canada Inc. Provider #:

AIA #:N/A LU | GBCI (USGBC/CAGBC) #:920013548

12:30 PM

Lunch

01:10 PM

Whole Building Ventilation: Providing Healthy, Comfortable & Energy Efficient Solution

The proven best way to save energy on heating and cooling is to make buildings more airtight. Airtight buildings are more comfortable, durable, resilient and affordable. By including balanced ventilation with heat recovery, occupants get fresh, filtered air delivered at all times while continuously removing odors, moisture, CO2 and other contaminants.

This informative presentation will describe how to ventilate an airtight building and provide superior indoor air quality, comfort and energy efficiency.

At the end of the presentation, participants will be able to:

1. Understand the advantages and weaknesses of supply-only, exhaust-only, and balanced ventilation systems
2. Learn how heat recovery ventilation enables a comfortable and healthy environment
3. Understand HRV/ERV's role in building an energy efficient home
4. Learn how to evaluate and choose the most effective HRV/ERV system

While designing and building his own very low-energy, high-performance home, architect John Rockwell became a Technical Sales Engineer with Swiss-owned Zehnder America, a world leader in providing superior indoor climate solutions.

A confirmed building science nerd, John received his Bachelor of Architecture from Wentworth Institute of Technology in Boston and his Master of Architecture from the University of Miami. In addition to his former architecture practice, his career has included teaching, municipal clean energy management, utility-funded weatherization, building science consulting and Passive House design.

John Rockwell

Zehnder America Provider #: 40107220

AIA #:A/2011 HSW

02:10 PM

Building Envelope Fundamentals and Design Solutions with Insulated Metal Panels

Discover how IMPs can help enhance the functionality of building, performance. You will gain a better understanding of the IMP's constructability and physical properties, and its visual, and structural attributes, efficiencies, advantages and benefits for using IMP's in today's design build world.

David Wandler

Norbec Architectural Provider #: 404108750

AIA #:inb05a HSW | GBCI (USGBC/CAGBC) #:920017558

03:10 PM

Break

03:20 PM Sponsor: Dizal - Michael Pace

03:30 PM **Sintered Compact Surfaces Basics: Design, Application & Sustainability - Neolith01**

Materials used on exterior and interior surfaces need to withstand many elements, including water, scratches, high temperatures, UV, wind, etc. Choosing a material is certainly influenced by the ability to hold up over time but also by the available size and weight, maintenance, hygiene, bending properties, recyclability, VOC, not to mention the appearance and efficient and cost-effective installation. There is one new product category that will be the focus of this course, namely Sintered Compact Surfaces that can be used for a wide variety of application interior and exterior from countertops to curtain walls applications in both residential and commercial buildings.

Erion Vata
TheSize Surfaces USA LLC Provider #: 40108005
AIA #:Basics2020 HSW | GBCI (USGBC/CAGBC) #:920013572

04:30 PM **Acoustics 101**

In this presentation, we will go through the basics and explain how acoustics can be affected by different structures, floor/ceiling assemblies, walls and much more. The principles taught can be applied in future projects and will allow you to better understand how materials can perform.

Cristian Wallace
SIBE Acoustique inc. Provider #:
AIA #:TBA HSW

05:30 PM End

