2017 AIA Akron & Akron-Canton CSI Lunch & Learn Schedule

ONLINE REGISTRATION – notices will be delivered by email prior to each meeting. Must register to receive box lunch.

The deadline to register is noon Friday prior to the meeting date. This is an ONLINE Registration program. Notifications are sent through Constant Contact. If you are not receiving a notice, please contact Joanne Brussee, 330-699-9788.

Location:	AIA/CSI Office, 2841 Riviera Drive, Suite 120, Fairlawn OH 44333 Enter at the back of the building, down the stairs, and first door on right. Free parking is available in separate lot directly behind Riviera Bowling Lanes (next to AIA/CSI Office Building)
Time:	**Lunch & Learn times: 12:00 noon to 1:00 pm** Lunch is provided. Arrive about 15 minutes early so you may receive your lunch and the presentation will begin promptly at noon.
Cost:	AIA Akron & Akron-Canton CSI Chapter Members Free**, non-members of AIA Akron & Akron-Canton CSI $25**
Learning Units:	Credits will be issued for the Lunch and Learn presentation for AIA members. All presentations will be equal to 1.0 contact hours for other organizations requiring continuing education.

January 11, 2017 Mark Pittmann – Firestone Roofing
1 LU/HSW
Roof Selection Criteria
We will discuss the critical factors to consider when deciding on a new roof.

1. Form an understanding of what a warranty means, and the what it does and does not do
2. Form an understanding of setting realistic expectation for what a new roof can and cannot do.
3. Form an understanding of managing those expectations through maintenance as necessary for achieving optimal roof life.

January 25, 2017 Ray Redmond – STO Corp.
1 LU/HSW
Design & Detail for Air/Moisture Barriers & Continuous Insulation Solutions
Learning Objectives to Include:

1. EIFS Essential Components & Critical Details
2. Building Enclosure Evolution
3. Current Building & Energy Code Requirements
4. Air/Moisture Barriers & Building Envelope Design
5. Critical Details
6. Creative Finish Options

February 8, 2017 Jim Brocious -
1 LU/HSW
Understanding Poly-Ash Siding and the Other Categories of the Siding Market
Course Description
An examination of the new Poly-Ash category of exterior siding as it relates to other types of siding, specifically around the areas of installation, maintenance, and sustainability.

Learning Objectives

1. Identify the various types of exterior siding and material composition
2. Understand the key attributes of each siding category and installation concerns
3. Define the Poly-Ash category of exterior siding and performance attributes of the material
4. Identify key applications and installation guidelines for Poly-Ash siding

February 22, 2017 Steve Hall – Parksite

1 LU/HSW

Description:

This seminar is a basic review of heat, air and moisture transport mechanisms across the building enclosure and the design control strategies. The first section will discuss heat transport mechanisms and heat management. There are 3 main mechanisms of heat transport: conduction, convection and radiation. Heat flow by conduction (through materials) is discussed in the first section which includes a brief review of thermal insulation materials and energy code requirements for thermal insulation. Heat flow by convection (through air currents) is controlled with a Continuous Air Barrier. A summary review of the overall impact of air leakage on building enclosure performance and the importance of air leakage control is provided in the second section. Air leakage and Air Barriers are addressed in more details in other CES presentations by the same provider (Air Barrier-1 and Air Barrier-2). Heat flow by radiation (through space) is not discus in this seminar and it is more important for fenestration than for the opaque envelope. The last section is a brief review of moisture sources in buildings, moisture transport mechanisms, and moisture control strategies. The building science principles behind the moisture management are briefly discussed. Moisture management principles are addressed in more details in other CES presentations by the same provider (Moisture 1 and Moisture 2).

Learning Objectives:

After attending this seminar, you will be able to understand:

1. Heat flow mechanisms and heat control strategies
2. Air transport mechanisms and air leakage control strategies
3. Moisture transport mechanisms and moisture control strategies
4. The importance of heat, air and moisture management in buildings

March 8, 2017 Paul Nalette – Nalette & Associates, Inc.

1 LU/HSW

Solutions for Large Openings

Description:

NanaWall Systems, the leader in opening glass wall technology, cordially invites you to schedule an AIA breakfast, lunch or dinner seminar entitled “Solutions for Large Openings” Our knowledgeable North American Architectural Consultant and local Rep will present the information you need to confidently design innovative projects using operable glass walls. You will learn the differences between folding and single track sliding wall systems and how and where they are used. Learn how stringent product testing supports design freedom, and view imaginative new applications in an ever increasing market place. Challenge yourself to blur the lines between landscape and living space

Discussion of the following:

- Building envelope, sustainable design and accessibility
- Acoustics and interior design
- Energy efficiency and natural hazards
- Renovation and adaptive use
- Security

- Structural considerations

Learning Objectives

1. Familiarize architects with the definitions, capabilities, and usages of large moveable glass wall systems.
2. Provide answers on how large operable glass walls can improve the health, safety and welfare of building occupants.
3. Demonstrate new and innovative ideas to take into the design process for schools, hospitals and other commercial applications, and to help you through that process.

March 22, 2017 Murray Leight – Construction Specialties Inc.

1 LU/HSW

Sustainable Solutions for Shading & Daylighting

Description:

One hour seminar detailing the use of sun controls on commercial buildings. Presentation includes LEED drivers and sustainable design aspects of the system and how best to utilize sun controls for the reduction of energy usage within a building design.

Learning Objectives:

1. Identify economic, environmental and human performance factors that support sustainable shading and day lighting design.
2. Understand shading dynamics and the role of modeling.
3. Explore effective strategies for optimized thermal performance and interior illumination.
4. Consider sun control design options, construction methods, and crucial engineering considerations.
5. Establish a decision process for design and selection of sustainable shading and daylighting systems.

April 12, 2017 Bill Wittlinger - W.R. Meadows, Inc.

1 LU|HSW

Detailing Air Barriers

Description:

Air barriers are required by code in most states. While most architects understand the "whys"-- they are not clear on the installation details. This important layer of the building envelope requires careful detailing and installation. Some firms are even requiring meetings with installation contractors to be sure details are correctly executed. This course covers tricky details, including rough openings, roof to walls, and joints between different building materials.

Learning Objectives

1. Review air barrier systems and why they are important to a building's energy savings.
2. Identify difficult air barrier details in various types of building envelope construction.
3. Discuss installation and applications of liquid and membrane air barriers around rough openings, corners, building joints, and junctions of different materials.
4. Illustrate methods that save time or improve application and installation,

April 26, 2017 Danny Gum – Sierra Pacific Industries

1 HSW

High Performance Glazing Systems WPI 002

Description:

Understanding curtain wall systems.

Learning Objectives:

- Understanding the basic function of three CurtainWall systems.
- Identify these systems by functionality or cross section.
- Air and Water Infiltration
- Designing for loads
  - Wind Loads
  - Dead Load
  - Live Loads
  - Snow Loads
  - Sheer walls

Danny A. Gum
Short bio

- Danny has over 20 years in the construction industry. His work history includes construction, construction management, design, personnel management, accounting, and most recently, president of a window and door distribution company.
- Danny is now employed by Sierra Pacific windows as their Architectural Consultant for Ohio, West Virginia, and Michigan. He and his wife Kim live in Mt. Vernon, OH with their 2 dogs, Miss Weezie and Baxter.

May 10, 2017 Paul Bockert – Allegion, PLC.

1 HSW

Course Name: Basic Hardware Products

Course Description:

This course discusses the function and application of each type of opening hardware, and how to specify each correctly as it applies to fire doors, egress doors, and ADA compliant openings.

Course Objectives:

Upon successful completion of this course participants will be able to:

- state the function of each type of opening hardware
- state the application of each type of opening hardware
- list opening considerations that are needed before door hardware is specified

specify hardware correctly as it applies to fire doors, egress doors, and ADA compliant openings

May 24, 2017 Joe Hetzel – Speed Door

1 AIA LU/HSW

"High Speed Doors and Thermal Performance,"

presented by Joseph R. Hetzel, P.E., Door & Access Systems Manufacturers Association (DASMA)

Objective: To provide an overview of high speed door usage in the marketplace where thermal performance is an important consideration.

Description: This session will cover critical aspects of thermal performance to clarify the decision making process involving high speed doors.

Learning Objectives: At the end of this course, participants will be able to

1. Know what a high speed door is;
2. Know when and where high speed doors are typically used;
3. Know the thermal performance characteristics of a high speed door;
4. Know the key factor behind high speed door thermal performance.

Joseph R. Hetzel, P.E., Technical Director
Door & Access Systems Manufacturers Association

June 14, 2017 Paul Nalette – Kinkspan Lite (Bristolite)

1 LU/HSW
Health, Safety & Welfare (HSW) Aspects of Daylighting-F2F
Description
knowledgeable North American Architectural Consultant and local Rep will present the information you need to confidently design innovative projects.
Outline
1. Importance of Lighting in a Building (3 mins)
• Guidelines for workplace light levels
• Power of the Sun
2. What is Daylighting? (2 mins)
3. Daylighting & Health (12 mins)
• Aspects of Architecture that promote health benefits
• Why the improvement in human performance?
• Circadian Rhythm
4. Health, Safety & Welfare and Productivity (3 mins)
• Heschong Mahone Group report
• Center for Building Performance and Diagnostics study
5. Daylighting & Safety (15 mins)
• Current safety codes
• Glazing selection
• Safety accessories
• Fire protection
• Emerging technologies
6. Daylighting & Welfare (10 mins)
• Aspects of Architecture that engender positive health responses
• Daylighting benefits for schools, work & retail
• Welfare and the environment
7. Daylighting Design (10 mins)
• SkyCalcTM
• DIALuxTM
• Daylighting design
• International and national codes
8. Quiz

October 11, 2017 Steve Hall –

1 LU/HSW
Description: Today's buildings are responsible for 38% of the world's energy usage, causing the demand for highly energy efficient and durable buildings to increase. One of the key elements in a highly energy efficient and durable building envelope is a continuous air barrier and water barrier system.
There are several different types of air barrier membranes that are commonly used in the industry, although fluid applied air barriers continue to increase in popularity. There are hundreds of fluid applied air barrier products currently available and they vary greatly in thickness and formulation. As commercial buildings become more energy efficient and complex, the need for a "high performance" fluid air barrier system is increasing.
This presentation will discuss some of the key differences and performance advantages of these new high performance air barrier chemical formulations in contrast to traditional fluid applied air barrier formulations.

Learning Objectives: After attending this seminar, you will be able to:

1. Discuss the impact of air leakage on building performance
2. Distinguish between Fluid Applied Air Barrier technical properties using their formulation chemistries
3. Design building envelope systems with a Fluid Applied Air Barrier
4. Specify a Fluid Applied Air Barrier System to meet your project's performance requirements

Target Audience: Architects, Design Professionals, Specifiers, Owners, Contractors, Code Officials, Building Envelope Consultants, and Students. This program meets every experience level with time designed into the program for questions and answers.