

Session 1: 08:00 AM - 09:00 AM

A. Foundation Restoration

Marty Sobelman, Atlas Restoration LLC.

This seminar will assist architects and engineers to effectively choose a piling system for your specific site condition. Learn about the many types of geotechnical grouting (permeation, compaction, pressure) and analyze full depth and partial depth patching for concrete repair.

B. 2 + 2 = 3? Something Just Doesn't Add Up

Kurt Hoigard, Raths, Raths & Johnson, Inc.

A veteran engineer with 30 years of experience investigating cases involving building leakage, deterioration, and collapse, shares some insights on how basic assumptions and simple mistakes can lead to serious, and sometimes tragic, results. Four example cases are reviewed with learning points summarized for each.

C. Windows and Environmental Goals

Vivian Kahler, Marvin Windows and Doors

This seminar gives an overview of the ways sustainability issues are changing the building materials landscape, with an emphasis on windows. This program addresses large themes like energy usage and measuring the environmental impact of building products, and looks specifically at window performance and materials.

D. Multi-Family Sound Control

Daniel Gibson, Keene Building Products

There are many ways of solving the sound dilemma in multi-family. This presentation will help teach and understand how noise is measured, types of noise, and how to build and design with noise control on your mind. You will learn the different elements involved in an entangled net sound system and how any multi-family construction can benefit from it.

E. Selling Healthier Indoor Air Quality and the Related Benefits

Robert Schildgen, Priority Energy

Attendees will learn how to sell the importance of better indoor air quality. We will discuss why healthier indoor air is so important and how to relay this to builders and homeowners. We will also cover how to test IAQ, available IAQ solutions, and how to properly measure for and install equipment.

Session 2: 09:30 AM - 10:30 AM

A. Understanding Critical Transitions of Air, Vapor and Moisture Barriers

Corey Zussman, Pepper Construction

This seminar will identify the many different critical transitions on a complex building and will give you the tools to better understand the sequencing needed to complete the installation in order to prevent constructability issues and potential rework in the field. Construction photos of actual installations and explanations of each condition will be reviewed.

B. Mid Rise Design: Understanding Building Size and Fire Protection

Archie Landreman, Wood Products Council

This presentation will cover some of the design considerations associated with mid-rise wood-frame buildings, including how to maximize height and area through the use of sprinklers, open frontage, sloping sites, podiums and mezzanines. Fire protection will also be discussed with an emphasis on fire-rated assemblies used in exterior walls.

C. Translucent Daylighting Design Solutions -- Building & Energy Code Compliance

Rafael Rivero, CPI Daylighting

Learn the importance of integrating daylighting into a building's design and how it contributes to a healthier indoor environment. Participants will learn key characteristics of both successful and unsuccessful daylighting strategies, and what defines a high-performance daylighting system. We'll also review the impact LEED v4 has on daylighting.

D. Aminoplast Masonry Foam Insulation: Facts, Legends & Fire Myths

Kevin Cavanaugh and Bob Sullivan, cfiFOAM, Inc.

Aminoplast foam insulation is widely used to insulate CMU walls. This session explains what aminoplast foam is, how it is made, where it is used and how it is installed. QC/QA methods are outlined and performance limits are reviewed with an emphasis on fire & thermal performance. Next Gen CMUs are introduced and shown to meet the new Energy Code.

E. Small Firms Do It Better with BIM (LU)

Leeswann Bolden and Jon Welker, GRAPHISOFT

There is a perception that small firms and sole practitioners cannot take advantage of Building Information Modeling due to cost, complexity, training time, and productivity. This is not true. See how BIM can enhance your practice, enable you to be more efficient and help position you to compete in the evolving architecture industry.

Session 3: 11:00 AM - 12:00 PM

A. Advances and Applications of Fluid Applied Air Barrier Membranes

Casey Robb, DuPont Building Innovations

This seminar is targeted for design professionals interested in learning more about recent advancements in fluid-applied air and water barrier systems. The seminar will address the choices of FA air & water barriers, the key differences and advantages of the newer high performance chemical formulations in contrast to traditional FA formulations.

B. Top Framing Concerns

Matthew Brown, APA-The Engineered Wood Association

This seminar was developed to assist in reducing framing issues in the field. The presenter will focus on code requirements of each assembly as well as helpful information for plan detailing to help prevent installation issues.

C. Electrochromic Glazing - Dynamic Control of Solar Energy

Kevin Frisone, SAGE Electrochromics, Inc.

This course details how electrochromic glazing can be used to meter and control the amount of light and solar energy entering a building to provide optimum daylighting and energy efficiency. An introduction to electrochromics, use of zoning, variable tinting, control strategies and case studies will be discussed.

D. Introduction to the Prescriptive Residential Wood Deck Construction Guide (DCA6)

David Finkenbinder, Simpson Strong-Tie

Based on the 2012 IRC, the current edition of the DCA6 pertains to single level residential wood deck construction. Provisions contained in the document that are not included in the IRC are recommended as good practices. This seminar will provide an overview of the DCA6 and its Commentary, with additional focus on common problem areas for decks.

E. "The Good, the Bad and the Ugly of Copyrights in Construction"

Werner Sabo and Shawn Goodman, Sabo & Zahn, Attorneys at Law

Since the Architectural Works Copyright Protection Act of 1990, there has been a large increase in copyright litigation involving construction projects. This seminar will explore copyright issues involving architects, owners, and contractors. Included will be an overview of copyright law; how to register your copyright; advice in avoiding copyright problems and infringement litigation; contractual language in standard form contracts and how to modify it; information about the Digital Millennium Copyright Act and how it affects you; plus ways to spot problems before they become major issues.

A. Storefront vs. Curtainwall: Selecting the Proper System

Jim Oberlin

Product selection, design, manufacture and installation are explored. Recommendations for specifications and application are included. Learn how storefront and curtainwall are designed and installed to control rain water infiltration. How to meet current wind load and energy code requirements are also explained.

B. Energy Retrofits: Window ROI and Comfort - The Whole Story

Chris Carpenter

Window replacement is an undervalued option for increasing energy efficiency in commercial retrofits. This course reviews energy savings that can more than double ROI, using advanced analysis methods. Included is a multi-building case study and ways to identify the best candidates for window replacement to help prioritize energy retrofit projects.

C. Fire-Retardant Treated Wood and its use in Design and Construction

James Gogolski

This in-depth presentation on fire-retardant treated wood (FRTW) focuses on its characteristics, properties, and performance in a fire. Fire tests, standards, FSC certification in LEED projects and building code requirements related to FRTW Details will be provided on where FRTW is used and what impact its use has on construction and insurance costs

D. Win Win: Contract Clauses to the Rescue (LU)

Melissa Roberts and Eric Singer

Using a clear, strongly worded, written contract can mean the difference between a successful project and a job you regret having taken. It is not magic. It is risk management. Join experts, Eric Singer, attorney with Ice Miller, and insurance broker, Melissa Roberts with USI, as they share 10 proven contract solutions to balance risk and reward.

E. Controlling and Isolating Sound in the Design and Construction Process

Peter Cook

Controlling and isolating sound is tricky? Without the correct tools, the right people, and the proper design, the results are often disastrous. Attendees will dive into the 3 tools of sound isolation and the role of each in the design/build process while discussing the process of designing and constructing a specialty space.

Session 5: 02:45 PM - 03:45 PM

A. Designer Led Design-Build - Return of the Master Builder

Jeremy Baker, Schiff Hardin LLP

This seminar outlines the benefits of using an architect-led design-build business model. Jeremy instructs architects on how to structure their businesses to contract directly with owners as the prime member of a design-build team, subcontracting the actual construction to a general contractor teammate.

B. Using Energy Codes to Your Advantage

Matthew Brown, APA-The Engineered Wood Association

Tightening energy codes can require significant increases in construction costs for builders and homeowners. Is there a way to avoid excessive additional cost, to get better returns for energy investments? Fortunately yes, all energy upgrades are not equal; learn how to keep priorities right and get the best value for your construction dollars.

C. Healthy Walls = Rainscreen & Ventilation

Jim O'Neill, Keene Building Products

The construction industry has seen a substantial increase in moisture-related issues in exterior walls. This presentation will discuss how a rainscreen wall system prevents moisture build-up within walls by providing a means for drainage and ventilation. The presentation provides an overview of rainscreen principles and explains how to incorporate a rainscreen system in a variety of applications including stucco, manufactured stone, siding, and masonry cavity walls.

D. Geothermal Done Right!

Scott Niesen, WaterFurnace

No matter what climate you live in, the temperature throughout the year varies. What many people don't realize is that the temperature below ground stays fairly consistent all year. This seminar will provide an overview of Geothermal ground source heat pump technology, key applications, types of extraction loops and installation methods as well as where the future of geothermal is headed.

E. 10 ways to better communicate (LU)

Dave Molenda, CGA, CCP, Positive Polarity, LLC.

85% of our success in life is directly attributable to our communication skills. In this fast paced briefing, we will learn ways to improve our communication with real world tips to use the same day!

Keynote Speaker Presentation: 04:15 PM - 05:30 PM

Narratives in Architecture (LU)

Jimenez Lai

Jimenez Lai is a faculty member at UCLA and taught at University of Illinois at Chicago. He graduated with a Master of Architecture from University of Toronto. Previously, Lai lived and worked in a desert shelter at Taliesin. Before founding Bureau Spectacular, Lai worked for various international offices, including OMA. He is widely exhibited and published around the world, including the MoMA-collected White Elephant.

This seminar will explore architectural drawings as journalism and the communication of architecture as visual language.

Session 7: 06:30 PM - 07:30 PM

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C. Storefront vs. Curtainwall: Selecting the Proper System

Jim Oberlin, Tubelite Inc.

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D. Building an Architect: Understanding Internship & Licensure (LU)

Harry Falconer, Jr., NCARB

The rules and requirements for licensure as an architect continue to evolve with the architecture profession. The IDP can be completed more efficiently than ever, the ARE allows more flexibility, and tools such as the NCARB certificate facilitate mobility. Come hear effective strategies for completing this path to licensure as an architect.