

Echelon Masonry Continuing Education Lunch Programs

All programs AIA/ CES with 1 Learning Unit

Some Programs include 1 GBCI LEED CEU



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IECC Energy Review and Masonry Compliance Options

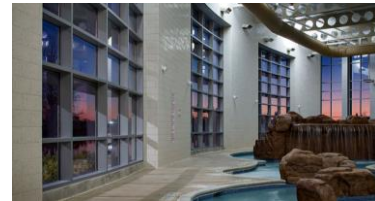
- **Program #:** EMX-11
- **Provider #:** J-374
- **CEUs:** 1 AIA HSW CEU
 - 1 GBCI LEED CEU



This presentation reviews exterior envelope R-Value requirements and masonry wall compliance options in regards to the 2015 IECC (International Energy Conservation Code). We will review exterior wall R-value requirements and define Continuous Insulation (CI) as well as present design opportunities and innovation (CI), as well as present design opportunities and innovative wall systems that comply with the 2015 IECC.

Overview of the Role of Masonry in Sustainable Design and LEED v4.0

- Program #MSD14
- Provider #J-374
- CEU's: 1 AIA HSW
- CEU's: 1 GBCI LEED



This program will provide an overview of the LEED v4 Rating System. It will address LEED v4 credit categories, with particular emphasis on the Materials and Resources credits, and identify how masonry products can contribute to sustainable design and LEED. It will also discuss the ways sustainable design goes beyond the U.S. Green Building Council's LEED Rating System. This presentation will give insight on the environmental building marketplace, as well as cover criteria and considerations used in selecting masonry products for LEED projects.

Design Tactics for Stone Masonry Products

- **Program #:** TREN-10
- **Provider #:** J-374
- **CEU's** 1 HSW

This one-hour HSW program will explore how to effectively design masonry walls using proper design techniques focusing on the prevention of moisture, cracking and cleaning issues. This building design focus is on planning and designing sound masonry walls using proper architectural structural components based on industry guidelines and specifications. Attendees will learn why walls crack and how to design to eliminate unnecessary repairing and cleaning of masonry walls.

Concrete Masonry Walls for Mold and Moisture Prevention (HSW)

- **Program #:** TREN-02
- **Provider #:** J-374
- **CEU's:** 1 HSW

This one hour HSW presentation will (1) explore the causes of moisture and mold problems; (2) show how materials, construction practices and design details can relate to mold growth; (3) determine the public health and legal implications; and (4) discover materials and design solutions for healthy buildings. The focus is on architectural concrete masonry units and proper construction techniques to counter mold. This presentation meets AIA requirements for a one-hour Health, Safety and Welfare credit

Designing with Masonry Units for a Healthier, Safer Building Environment (HSW)

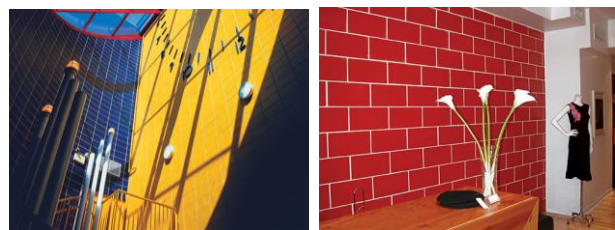
- **Program #:** TREN-03
- **Provider:** J-374
- **CEU's:** 1 HSW



Concrete masonry is an effective solution for the ever-changing design environment. In this HSW program, the importance of test reports and their relevance to design and sound construction of the building envelope is explained. This program also addresses how good masonry practices can assist designers in achieving the objectives of Green Building and Sustainable Design. Also addressed are the proper techniques to create effective results with building acoustics, the importance of Fire Ratings and the impact on public safety. This presentation meets the AIA requirements for a one-hour Health, Safety and Welfare credit.

The Concrete Benefits of Glazed Masonry

- **Program #:** TREN-11
- **Provider #:** J-374
- **CEUs:** 1 HSW



Glazed concrete masonry units (CMU) are a safe, clean alternative to structural glazed facing tile (SGFT) and ceramic tile. This HSW program addresses sustainable design as well as the LEED® points that may be achieved using glazed CMU. Architects will understand why concrete masonry units have a high impact on their safety objectives. In addition, this program enables architects to effectively understand why glazed CMU is “the healthy choice” in terms of how it impacts both building inhabitants and the environment. This presentation meets the AIA requirements for a one-hour Health, Safety and Welfare credit.

Excellence in Single Wythe Masonry (HSW)

- **Program #: QUIK14**
- **Provider #: J-374**
- **CEUs: 1 HSW**

This one-hour HSW program explores how to properly design single-wythe concrete masonry walls. The rain -screen wall principle is introduced and discussed in detail. Design features to minimize and accommodate various wall movements (thermal, drying shrinkage, etc) are discussed. Methods to insulate single-wythe walls are reviewed and project photos are highlighted to demonstrate single-wythe wall design creativity. Cleaning techniques are also reviewed. This presentation meets AIA requirements for a one-hour Health, Safety and Welfare credit.

Enhancements to Manufactured Stone Veneers- Through Dry Cast Technology

- **Program #: MSV101**
- **Provider #: J374**
- **CEUs: 1 HSW**



This presentation reviews the rising trend and use of manufactured stone veneers (MSV) and advancements in the manufacturing process which make new veneers more durable, easier to install and more aesthetically pleasing. We will review installation procedures that assure moisture control and a long building life with minimal maintenance. We will also cover benefits of thin or lightweight veneers versus full-depth veneers.

Designing with Innovative Architectural Blocks for Buildings

- **Program #: OSKA-01**
- **Provider #: J-374**
- **CEU's: 1 HSW**

Concrete blocks are not just for foundations and basements. Architectural masonry units are animating the facades of schools, supporting columns of healthcare facilities and gracing the arches of shopping malls. This program will cover the vast range of masonry units available and their potential uses. Designing and building masonry structures to look good for the life of the building requires a fundamental understanding of the enemies of masonry and proper detailing to protect your walls. This discussion on critical detailing and project management will ensure lasting beauty of masonry units.

NCMA Fire Safety

- Program #C202D
- Provider #J-374
- CEU's: 1 AIA HSW

Balance design of fire resistance for buildings, suppression and detection systems, as well as fire testing procedures and methods for determination of fire resistance ratings for concrete masonry assemblies including code approval calculation methods.

NCMA Crack Control

- Program # C205Da
- Provider # J-374
- CEU's: 1 AIA HSW

This presentation addresses the proper application of empirical crack control measures in concrete masonry wall systems as presented in NCMA TEK 10-2C. It includes causes of cracking, use of control joints and horizontal reinforcement to minimize cracking, details and banding (mixing courses of clay and concrete masonry).

NCMA Moisture Penetration Resistance

- Program # C305Db
- Provider # J-374
- CEU's: 1 AIA HSW

This program provides a general overview of strategies to provide moisture-resistant concrete masonry assemblies, including material requirements and quality design and construction practices. A brief overview of mold and mold abatement is also included. (C305b– 66 slides – 1 hr. LU/HSW)

NCMA Thermal Performance Introduction

- Program # C303Da
- Provider # J-374
- CEU's: 1 AIA HSW

Increased energy efficiency in both new and existing construction is continuing to play a larger factor behind the design decisions we make and materials we choose to integrate into our buildings. This presentation introduces the basics of energy efficient design using concrete masonry construction. The concepts of thermal mass, insulation strategies, thermal bridging, code compliance options, and control of air infiltration/exfiltration are reviewed.

(53 slides – 1 hr. LU/HSW)