AIA Continuing Education – Masonry Courses

York Building Products offers a variety of educational opportunities for designers. There is no program charge, and with your input on menu selection, York Building Products will provide the meal. To schedule a presentation, please contact:

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ACCURATE AND SIMPLIFIED STRUCTURAL DESIGN:  DDSCM18  (1 hr. LU, HSW)
- Generate code-compliant building layouts and detailing in minutes.
- Understand loading requirements and distribution for wind, seismic, dead, live, and snow loads.
- Create proper structural design of concrete masonry construction and architectural configurations using standardized design methodologies.
- Observe illustrations of software interface, user inputs, and design outputs.

ACOUSTICAL MASONRY SYSTEMS:  YBP-MD-MA  (1 hr. LU, HSW)
- Recognize historical beginnings and development of suppressing noise within hard surface environments to improve occupant comfort.
- Describe the working dynamics of volume resonators.
- Compare technology, applications, and methods of volume resonators.
- Identify specific benefits and advantages of Acoustical Concrete Masonry Units.
- Apply design and construction practices to these masonry units.

BIM - MODEL DRIVEN CONSTRUCTION AND DESIGN FOR MASONRY:  YMIQ-BIM  (1 hr. LU, HSW)
- Study masonry materials and their relationship to other trades through detailed models.
- Understand the importance of masonry layout and its impact on other construction processes.
- Explore laser scans and clash detection for improved masonry solutions.
- Learn about new support for masonry design and rendering in Revit.

CAPTIVATING AESTHETICS WITH LASTING PERFORMANCE:  YBP-MD-AWP  (1 hr. LU, HSW)
- Identify the performance characteristics of concrete masonry wall systems.
- Compare available unit design options for form and function.
- Learn how mortar tooling and bond patterns enhance the performance and the aesthetics of design.
- Review examples of how these design elements have been incorporated into completed, award winning projects.

HOW TO CONTROL CRACKS IN NEW BUILDINGS:  YBP-MD-CC  (1 hr. LU, HSW)
- Compare the primary causes of cracking in concrete masonry.
- Review ways to minimize the potential for cracking.
- Understand the utilization of horizontal reinforcement and the placement of control joints.
- Describe how to maintain and increase a fire resistance rating at a control joint.
HOW TO KEEP WATER OUT FOR SUSTAINABILITY AND PERFORMANCE:  YBP-MD-MW  (1 hr. LU, HSW)
- Describe the composition of prevalent flashing products and their impact on sustainability and life cycle costs.
- Explain how to specify through-wall flashings to avoid compatibility issues.
- Understand the performance characteristics, different types of commonly used cavity wall materials and how to create a resilient flashing system.
- Examine necessary accessories and the potential challenges with installation.

INCREASING ENERGY EFFICIENCY:  YBP-MD-ETP  (1 hr. LU, HSW)
- Explain the role of thermal mass in building design, building energy efficiency, and occupant comfort.
- Discuss the role R-values and U-factors play in the design of energy-efficient building envelopes and code compliance.
- Examine the design options in concrete masonry construction for compliance with the International Energy Conservation Code (IECC).
- Evaluate strategies to maximize energy performance, including placement and types of insulation, with concrete masonry systems.

MANUFACTURING AND CONSTRUCTION OVERVIEW:  YBP-OCMC  (1 hr. LU, HSW)
- Discover the different types of manufactured concrete products and the process by which they are produced.
- Review masonry-specific terminology and definitions; including code-specific terms as well as regional nomenclature.
- Identify standards covering manufactured concrete products and the relevant physical requirements stipulated within these standards.
- Describe products and materials used in the construction of concrete masonry systems, including reinforcing steel, grout, and mortar; and the relevant code provisions covering these materials.

SELECTING MASONRY CEMENTS:  YBP-MD-SC  (1 hr. LU, HSW)
- Understand the differences between Cement, Concrete, Masonry Cement and Mortar.
- Become familiar with the types and components of mortar.
- Discuss the aesthetic impact of mortar color and tooling.
- Describe proper clean down procedures.