

SEMINAR SCHEDULE

2022
2023

MASONRY INSTITUTE OF ST. LOUIS

In 1971, a trust fund was established to promote the use of masonry materials. Through this trust fund, the Masonry Institute of St. Louis was created to serve as the promotional and technical arm in the Missouri counties of the Greater St. Louis Area Masonry Industry.

Seminar participants earn continuing education credits as indicated within the schedule. Annual certificates showing credits earned through the Masonry Institute of St. Louis are mailed to participants each December. Year-to-date certificates are available upon request.



Masonry Institute of St. Louis seminars are profession-specific. However, everyone is welcome to attend all programs.



REGISTER FOR ALL SEMINARS DIRECTLY FROM EMAIL INVITATION, (314) 645-5888, OR MASONRYSTL.ORG UNLESS OTHERWISE NOTED: ALL SEMINARS BEGIN AT NOON, ARE ONE HOUR LONG, WITH LUNCH PROVIDED. VEGETARIAN MEALS ARE AVAILABLE UPON PRIOR REQUEST.

Education for Architects

2022
2023

Designing Efficient and Aesthetic Single Wythe Masonry Walls Systems

Wednesday, September 28, 2022

Speaker: Pat Conway
International Masonry Institute

Get inspired to design beautiful brick and CMU single wythe masonry structures. Masonry is readily available, provides structure, and meets today's energy codes when designed efficiently. We'll explore how to specify block strength, mortar, and grout to create an efficient wall system. You'll also learn best practices and tips for water mitigation and energy compliance. [AIA HSW 1.0 by IMI]

Sponsor: Midwest Block & Brick
www.MidwestBlock.com

Restoring America's Masonry Past - Fort Ticonderoga

Wednesday, October 19, 2022

Speaker: David T. Biggs
Biggs Consulting Engineering

The founding of the United States is uniquely linked to Fort Ticonderoga. Constructed in 1759 by the French as Fort Carillon during the French and Indian War against the British. It went on to be contested by the British and Colonial armies during the Revolutionary War until the British abandoned it in the aftermath of the Battle of Saratoga and the surrender at Yorktown. The property was taken over by New York State and then sold to the Pell family in 1820. The Pells and now the Fort Ticonderoga Association have been continually rebuilding and restoring the fort for visitors. This presentation will highlight the original construction and the significant restoration works. The fort is both a National historic landmark and on the National Register of Historic Places.

Sponsor: Superior Waterproofing
www.SuperiorWaterproofing.com



Except as noted, all attendees receive one MISL Professional Development Hour (PDH) for each of the architectural seminars listed above.

Architectural Guide to Structural Masonry

Wednesday, January 18, 2023

Speaker: Darrell W. McMillian
Masonry Institute of St. Louis

Given current design schedules, timely coordination between the architect and structural engineer is more important than ever. Join Darrell McMillian as he serves as a "guide" to structural masonry concepts, jargon, and useful design aids, which will hopefully allow for better communication with your friendly structural engineer on future projects. Discussion to include structural masonry design codes and standards, concrete masonry unit selection and assembly strengths, structural effects of wall openings and control joints, typical anchor and reinforcement detailing, and expected maximum wall heights for given reinforcement amounts. Darrell will also give insights to using structural masonry for tornado shelters on educational projects.

Sponsor: Midwest Block & Brick
www.MidwestBlock.com

Examining the Environmental Impacts of Masonry Construction

Wednesday, March 22, 2023

Speaker: Christine A. Subasic
Consulting Architectural Engineer

This seminar addresses the various environmental impacts of masonry construction. Resilient building design will be defined and discussed as well as how it differs from green building design. Environmental product selection information will be reviewed. The embodied carbon of concrete masonry will be examined along with suggestions to reduce the carbon footprint.

Sponsor: Irwin Products, Inc.
www.IrwinProducts.com

"Hands-on" Masonry: Materials and Systems

Tuesday, Wednesday, Thursday

May 9, 10, 11, 2023

Time: Noon to 1:30 p.m.

Location: Joint Apprenticeship Training Center
Earth City, MO

Pick up the trowel and get your hands dirty (maybe your clothes too!) trying out your own bricklaying skills. Learn first-hand how basic masonry materials come together to form durable and safe building components. Apprenticeship instructors and local mason contractors will be on hand to assist attendees with converting project document information into real-world masonry systems. [MISL PDH 1.5 only]

Sponsor: Spec Mix
www.SpecMix.com



The Masonry Institute of St. Louis is a registered provider of AIA-approved continuing education under Provider Number G137. All architectural seminars listed above, except as noted, have been submitted for AIA Continuing Education Services LU/HSW approval.

Education for Engineers

2022
2023

Designing Efficient and Aesthetic Single Wythe Masonry Walls Systems

TUESDAY, September 27, 2022

Speaker: Pat Conway
International Masonry Institute

Get inspired to design beautiful brick and CMU single wythe masonry structures. Masonry is readily available, provides structure, and meets today's energy codes when designed efficiently. We'll explore how to specify block strength, mortar, and grout to create an efficient wall system. You'll also learn best practices and tips for water mitigation and energy compliance.

Sponsor: **Midwest Block & Brick**
www.MidwestBlock.com

Structural Masonry Update – Fiber Reinforced Polymers

Wednesday, November 16, 2022

Speaker: John J. Myers
Missouri University of Science & Technology

Fiber-reinforced polymer (FRP) systems can be used to reinforce/strengthen existing and new masonry components. FRP systems include high tensile strength, light weight, ease of construction, and resistance to corrosion. John Myers has done extensive work in the field of FRP research and standardization and will provide a preview to the new TMS 402-22 Appendix D for using glass fiber reinforced polymer (GFRP) reinforcement as an option to traditional steel reinforcement when designing new masonry components. John will also give a brief update to ongoing FRP research efforts.

Sponsor: **Lemay Concrete Block**
www.LemayBlock.com

Setting Up a Masonry Project Quality Assurance Program

Wednesday, February 15, 2023

Speaker: Michael P. Schuller
Atkinson-Noland & Associates

Did you know that the building code does not require field test for mortar and grout on masonry projects? Or that the TMS 402 code dictates when we need full-time inspection? Code requires the designer to specify exactly what is required for job site testing, inspection, and structural observation. In this seminar, we'll learn what the IBC and TMS 402 have to say about the 3 different levels of quality assurance and how to determine which level of inspection is required for your project.

Sponsor: **John J. Smith Masonry**
www.SmithMasonry.com

Structural Masonry Detailing – Coupling Beams

Wednesday, April 19, 2023

Speaker: Richard M. Bennett
University of Tennessee - Knoxville

Last season Darrell McMillian presented an overview to the stiffness effects of masonry openings. Please join Richard (Dick) Bennett this year as he drills down further on the concept by looking at coupling adjacent masonry with the masonry (beam) above openings. Utilizing a strength design example of a reinforced in-plane masonry wall containing an opening, the discussion will include coupling versus not coupling, coupling force determination, shear and flexural capacities and applicable TMS 402 prescriptive detailing requirements. Dick will also look ahead to possible future TMS 402 provisions aimed at clarifying the overall coupling beam design process.

Sponsor: **Earthworks Stone**
www.EarthworksStone.com

“Hands-on” Masonry: Materials and Systems

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Sponsor: **Spec Mix**
www.SpecMix.com



Except as noted, all attendees receive one MISL Professional Development Hour (PDH) for each of the engineering seminars listed above.

Education for Code Officials

2022
2023



Code Official Seminars Co-Sponsored by:
St. Louis Professional Chapter of ICC/AIA St. Louis Building Code Committee

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Co-Sponsor: Midwest Block & Brick
www.MidwestBlock.com

Existing Solid Brick Dwellings with Flat Roofs

Wednesday, December 14, 2022

Speaker: Darrell W. McMillian
Masonry Institute of St. Louis

This presentation provides an overview to top-of-wall issues related to existing solid brick dwellings with flat roof systems. The discussion to include identifying solid brick dwellings; assessing brick, mortar, flashing and overall wall conditions; flat roof drainage approaches; top-of-wall and flat roof detailing; brick chimney interfaces. Following the discussion, digital pictures from several dwelling examples will be utilized to reinforce previously presented concepts.

Co-Sponsor: Richards Brick
www.RichardsBrick.com

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Co-Sponsor: Spec Mix
www.SpecMix.com



St. Louis Professional Chapter of ICC
And AIA St. Louis Building Code Committee

Except as noted, code official seminars above have been submitted for 0.1 ICC Continuing Education credits by the St. Louis Professional Chapter of ICC. ICC Preferred Provider 1163.

2022 INDUSTRY CONTRIBUTORS

PLATINUM PLUS

Heitkamp Masonry
Irwin Products, Inc.
Midwest Block & Brick
Raineri Building Materials

PLATINUM

Earthworks Stone
Spec Mix

SILVER

Richards Brick Company

BRONZE

Building Products Corporation
Cad Blox LLC
Caliber Cast Stone
Illinois Products Corporation
Lemay Concrete Block