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 are mailed to participants each December. Year-to-date certificates are available upon request.

2019 Masonry Industry Contributors

Platinum Level
Irwin Products, Inc.
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Raineri Building Materials, Inc.
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Masonry Institute of St. Louis seminars are profession-specific. However, everyone is welcome to attend all programs.

REGISTER FOR SEMINARS DIRECTLY FROM EMAIL INVITATION OR AT (314) 645-5888 OR masonrystl.org
A “Cast Iron” Star is Born
Wednesday, September 25, 2019
Speaker: Joseph Carpenter
  KPFF Consulting Engineers

A Cast Iron Star is Born reviews late 19th century and early 20th century masonry structural wall ties which are often found in antique stores as cast iron stars. Structurally significant cast iron stars are often overlooked as interesting architectural features and consequently do not get replaced when missing during building renovations. This session will address the historic and current building code requirements for these wall tie systems along with historically sensitive mitigation considerations when redeveloping historic brick buildings.

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

Air, Water, and Vapor Barriers: What’s Really Required for Masonry Construction
Wednesday, November 20, 2019
Speaker: Jason J. Thompson
  National Concrete Masonry Association

It’s seems with each new edition of the building code, new ‘layers’ are being introduced into the building envelope. Individually they serve a function, collectively they can have unintended consequences. Join Jason Thompson as he explores what the building code actually requires for the masonry portion of the building envelope in terms of air, water and vapor barriers and then contrasts these requirements against other common wall assemblies.

Sponsor: Caliber Cast Stone
  www.calibercaststone.com

Evaluating and Repairing Masonry in Fire Damaged Buildings
Wednesday, February 26, 2020
Speaker: Peter M. Babaian
  Simpson Gumpertz & Heger

As the recent fire at Notre Dame Cathedral shows, masonry buildings can still be susceptible to fire due to combustible materials used in the construction – typically at the roof level – or combustible materials within the building. While the masonry does not burn, the fire can impact the masonry in other ways. How do you approach a masonry building that has been through a fire? What steps are needed to evaluate the masonry and repair it as a result of the fire damage? This presentation will describe what can happen to masonry in a fire, an approach to evaluating fire-damaged masonry, and potential options for masonry repairs.

Sponsor: Spec Mix
  www.specmix.com

Masonry Project Tips: Architectural Design and Construction Detailing
Wednesday, April 22, 2020
Speaker: David T. Biggs
  Biggs Consulting Engineers

Masonry offers creative and original aesthetic design options while also providing practical, constructible buildings. However, project success is greatly affected by the design details and their implementation by mason contractors. Join David Biggs, frequent contributor to Masonry Design Magazine, as he reflects on past construction issues resulting from incorrect project detailing or detailing incorrectly deferred to the contractor. Topics include architectural tolerances, movement joints, project specifications, flashing and anchors, mortar s election and sample panels.

Sponsor: CAD BLOX LLC
  www.cadblox.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 have been submitted for AIA Continuing Education Services approval. LU|HSW status will be announced following AIA CES approval and prior to the seminar.

All attendees receive one MISL Professional Development Hour (PDH) for each of the architectural seminars listed above.

All architectural seminars are at the St. Louis Masonry Center, 1429 South Big Bend Blvd., from Noon to 1:00 p.m. unless otherwise noted. Lunch is provided. Vegetarian meals are available upon prior request.

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Strength Design Shear Wall Example
Wednesday, September 18, 2019
Speaker: Darrell W. McMillian
Masonry Institute of St. Louis

Join Darrell as he expands the seismic update discussion from last season with a concrete masonry shear wall design example, using the TMS 402 Strength Design Method. Discussion to include low-rise shear wall seismic load development, required TMS 402 Strength Design shear wall checks, and procedures related to detailing CMU shear walls. The discussion will also include possible impacts of the 2022 TMS 402 code cycle on future shear wall designs.

Sponsor: John J. Smith Masonry Co.  
www.smithmasonry.com

Masonry Checklist:
Reviewing Structural Drawings
Wednesday, February 19, 2020
Speaker: Sam Rubenzer  
FORSE Consulting

Construction document development is an important part of all structural projects. Sam Rubenzer of FORSE Consulting has developed a handy checklist intended to serve as a starting point for your design and review efforts as you develop masonry designs and details. Topics to include unit and f'm strengths, mortar & grout, control joints, lintel considerations and more. Sam will also share how you can customize the checklist to meet the needs of your specific projects.

Sponsor: Midwest Block & Brick  
www.midwestblock.com

Control Joints: Aesthetic Function…
Structural Implications
TUESDAY, November 19, 2019
Speaker: Jason J. Thompson  
National Concrete Masonry Association

Control joints have a simple purpose: isolate the masonry and provide stress relief to avoid unsightly cracking. Where control joints are located within a structure has potential structural impacts for both in-plane and out-of-plane load resistance that requires coordination between the architectural and engineering disciplines. Join Jason Thompson as he reviews some common control joint design and detailing strategies and review tools that are available to aid in their placement and design.

Sponsor: Midwest Block & Brick  
www.midwestblock.com

TMS 402 Appendix C Limit Design Method
Wednesday, April 15, 2020
Speaker: John M. Hochwalt  
KPFF Consulting Engineers

Limit Design is an alternative strength design methodology for use with perforated special reinforced masonry shear wall systems that are governed by seismic demands. Join John Hochwalt for an overview of the method, including the application of virtual work principles, determining the controlling global and local wall yield mechanism, and the corresponding base-shear strength of the wall system. The discussion will include an illustrative example highlighting the steps required for a safe, code compliant design.

Sponsor: Grant Masonry Contracting  
www.grantcontracting.com

All attendees receive one MISL Professional Development Hour (PDH) for each of the engineering seminars listed above.

REGISTER FOR SEMINARS DIRECTLY FROM EMAIL INVITATION OR AT (314) 645-5888 OR masonrystl.org

All engineering seminars are at the St. Louis Masonry Center, 1429 South Big Bend Blvd., from Noon to 1:00 p.m. unless otherwise noted. Lunch is provided. Vegetarian meals are available upon prior request.
Basic Masonry 101
Wednesday, September 11, 2019

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

This session provides an overview of current materials and processes for constructing new masonry exterior wall envelopes. Topics to include codes and standards, masonry units, mortars and grouts, flashing and weeps, anchors and ties, hot and cold weather precautions, field tolerances, and masonry cleaning. Current online masonry informational sources will also be discussed.

Co-Sponsor: Lemay Concrete Block
www.lemayblock.com

2018 IBC Masonry Special Inspections
Wednesday, April 8, 2020

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

The 2018 International Building Code (IBC) defers to the 2016 TMS 402/602, Building Code Requirements and Specification for Masonry Structures, for the type and frequency of masonry special inspections. Join Darrell McMillian for an overview of current masonry special inspection requirements and a discussion of the IBC and TMS 402/602 relationship regarding the special inspections process.

Co-Sponsor: Heitkamp Masonry
www.heitkampmasonry.com

Code officials seminars above have been approved for 0.1 ICC Continuing Education credits by the St. Louis Professional Chapter of ICC. ICC Preferred Provider 1163.

All code officials seminars are at the St. Louis Masonry Center, 1429 South Big Bend Blvd., from Noon to 1:00 p.m. unless otherwise noted. Lunch is provided. Vegetarian meals are available upon prior request.

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