

# SEMINAR SCHEDULE 2019/2020

## 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.



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

## 2019 Masonry Industry Contributors

### Platinum Level

Irwin Products, Inc.  
Midwest Block & Brick  
Raineri Building Materials, Inc.  
Spec Mix

### Silver Level

Continental Cast Stone  
Earthworks, Inc.  
Goedecke

### Bronze Level

Advanced Building Products	Lemay Concrete Block
Building Products Corporation	Midwest Cast Stone
CAD BLOX LLC	Mortar Net Solutions
Caliber Cast Stone	Nu Way Concrete Forms, Inc.
Hohmann & Barnard, Inc.	Richards Brick
Illinois Products Corporation	Wire-Bond

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# ARCHITECTURAL SEMINARS 2019/2020

## **A "Cast Iron" Star is Born**

**Wednesday, September 25, 2019**

**Speaker:** Joseph Carpenter  
KPF 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](http://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 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](http://www.calibercaststone.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.

## **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](http://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 selection and sample panels.

**Sponsor:** CAD BLOX LLC  
[www.cadblox.com](http://www.cadblox.com)



All attendees receive one MISA 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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# ENGINEERING SEMINARS 2019/2020

## 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](http://www.smithmasonry.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](http://www.midwestblock.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](http://www.midwestblock.com)

## TMS 402 Appendix C Limit Design Method

Wednesday, April 15, 2020

**Speaker:** John M. Hochwalt  
KPF 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](http://www.grantcontracting.com)



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# CODE OFFICIALS 2019/2020

*New! Co-Sponsored by: St. Louis Professional Chapter of ICC / AIA St. Louis Building Code Committee*

## **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](http://www.lemayblock.com)



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

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.

## **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](http://www.heitkampmasonry.com)



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