

# SEMINAR SCHEDULE

2021  
—  
2022



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

## 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.



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

2021  
2022

## Masonry Material Standard Update: **TMS 402/602-16**

**Wednesday, September 29, 2021**

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

This seminar will discuss the ongoing consensus process employed by The Masonry Society (TMS) for maintaining and publishing TMS 402, *Building Code Requirements for Masonry Structures*, and TMS 602, *Specification for Masonry Structures*. The discussion will also highlight major changes to the 2016 versions of each standard, which are referenced by the 2018 International Building Code (IBC). Darrell McMillian will also give a sneak preview to the key changes proposed for TMS 402/602-22.

**Sponsor:** Mortar Net Solutions  
[www.mortarnet.com](http://www.mortarnet.com)

## Incorporating the Forgotten Thermal Benefits of Brick

**Wednesday, November 17, 2021**

**Speaker:** Charles B. Clark, Jr.  
Brick Industry Association (BIA)

While frequently chosen for aesthetics and durability, clay brick is not often considered when energy efficiency is a primary concern, even though it historically played a significant role in occupant comfort before widespread use of HVAC systems. This course discusses the basics of heat transfer, relevant energy code provisions for walls, and how current research by the National Brick Research Center demonstrates the role that brick veneer can play in meeting or exceeding energy requirements in modern wall assemblies. [AIA HSW 1.0 by BIA]

**Sponsor:** Richards Brick  
[www.richardsbrick.com](http://www.richardsbrick.com)

## Stabilization and Restoration of Historic Masonry

**Wednesday, January 26, 2022**

**Speaker:** David T. Biggs  
Biggs Consulting Engineering

Masonry stabilization and restoration are vital to maintaining our heritage structures. Join David Biggs as he presents two case studies with significant masonry challenges. One is the emergency stabilization of partially collapsed brick from an 1887 clock tower. The second is the stone restoration of a 1912 government building with the largest colonnade of Corinthian columns in the United States. Both buildings are on the National Historic Register.

**Sponsor:** Irwin Products  
[www.irwinproducts.com](http://www.irwinproducts.com)



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

## Architectural Aspects of Tornado Shelters

**Wednesday, March 23, 2022**

**Speaker:** Stephen Gantner, Jr.  
Conspectus, Inc.

The International Building Code (IBC) requires tornado shelters for certain occupancies to be designed and constructed per ICC 500, *Standard for the Design and Construction of Storm Shelters*. Join Steve Gantner as he discusses the IBC tornado shelter triggers and gives an overview to the architectural aspects of the ICC 500 including shelter occupancy and siting, construction documents, egress requirements, and essential shelter features and accessories. Steve will also highlight the use of concrete masonry for tornado shelter walls.

**Sponsor:** Midwest Block & Brick  
[www.midwestblock.com](http://www.midwestblock.com)

## "Hands-on" Masonry: Materials and Systems

**Tuesday, Wednesday, Thursday**

**May 10, 11, 12, 2022**

**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:** Missouri Brick  
[www.mobrickco.com](http://www.mobrickco.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

2021  
2022



## Masonry Material Standard Update: **TMS 402/602-16**

**TUESDAY, September 28, 2021**

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

This seminar will discuss the ongoing consensus process employed by The Masonry Society (TMS) for maintaining and publishing TMS 402, *Building Code Requirements for Masonry Structures*, and TMS 602, *Specification for Masonry Structures*. The discussion will also highlight major changes to the 2016 versions of each standard, which are referenced by the 2018 International Building Code (IBC). Darrell McMillian will also give a sneak preview to the key changes proposed for TMS 402/602-22.

**Sponsor:** Earthworks Stone  
[www.earthworksstone.com](http://www.earthworksstone.com)

## Structural Masonry Design Hard?

### It's EleMasonry!

**Wednesday, November 10, 2021**

**Speaker:** Jason J. Thompson  
National Concrete Masonry Association

EleMasonry helps designers quickly and easily design masonry walls, columns, beams and pilasters. Code-compliant designs are provided through a fully transparent design process and output, allowing users to review and check all design calculations. The software uses all current codes and standards, including the 2016 TMS 402, *Building Code Requirements for Masonry Structures*, referenced by both the 2018 and 2021 International Building Code. Both Strength Design and Allowable Stress Design methodologies are supported by this innovative and unique software system.

**Sponsor:** Midwest Block & Brick  
[www.midwestblock.com](http://www.midwestblock.com)

## Structural Masonry Detailing: **Masonry Openings**

**Wednesday, January 19, 2022**

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

Join Darrell McMillian for a follow up to previous in-plane and out-of-plane wall design examples with a discussion of how openings in concrete masonry walls affect the distribution of load and their influence on overall wall detailing. Utilizing a low-rise concrete masonry sample building, the discussion will include the effect of openings on diaphragm bond beams, masonry lintel design, control joint type and placement, and the distribution of loads for both the in-plane and out-of-plane condition.

**Sponsor:** Swanson Masonry  
[www.swansonmasonry.com](http://www.swansonmasonry.com)

## 2021 Storm Shelter Summit:

### Lessons Learned

**Wednesday, March 16, 2022**

**Speaker:** Scott W. Walkowicz  
Walkowicz Consulting Engineers

During the summer of 2021, masonry designers and contractors met in St. Louis to discuss designing and constructing IBC required tornado shelters with concrete masonry walls. Join Scott Walkowicz, summit attendee, as he discusses lessons learned during, and following the summit. Topics presented will include CMU shelter wall optimization, shelter roof type selection, load-path anchoring of CMU walls to shelter roofs and foundations, and shelter quality assurance considerations. Scott will also highlight CMU tornado shelter prototypes proposed during the summit.

**Sponsor:** Lemay Concrete Block  
[www.lemayblock.com](http://www.lemayblock.com)

## "Hands-on" Masonry: Materials and Systems

**Tuesday, Wednesday, Thursday**

**May 10, 11, 12, 2022**

**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:** Missouri Brick  
[www.mobrickco.com](http://www.mobrickco.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

2021  
2022

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

## Masonry Material Standard Update: **TMS 402/602-16**

**TUESDAY, September 28, 2021**

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

This seminar will discuss the ongoing consensus process employed by The Masonry Society (TMS) for maintaining and publishing TMS 402, *Building Code Requirements for Masonry Structures*, and TMS 602, *Specification for Masonry Structures*. The discussion will also highlight major changes to the 2016 versions of each standard, which are referenced by the 2018 International Building Code (IBC). Darrell McMillian will also give a sneak preview to the key changes proposed for TMS 402/602-22.

**Co-Sponsor:** Earthworks Stone  
[www.earthworksstone.com](http://www.earthworksstone.com)

## Basics of Masonry for Code Officials

**Wednesday, December 8, 2021**

**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:** Trends in Tile  
[www.trendsintile.com](http://www.trendsintile.com)

## Tornado Shelter Quality Assurance

**Wednesday, March 9, 2022**

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

The IBC requires tornado shelters for certain occupancies to be designed and constructed per ICC 500, *Standard for the Design and Construction of Storm Shelters*. Join Darrell McMillian for an overview to the ICC 500 and then a discussion of shelter quality assurance requirements, including construction documents, peer review, quality assurance plan, special inspections and testing and structural observations. Darrell will also share insights gained from the 2021 Storm Shelter Summit recently held in St. Louis.

**Co-Sponsor:** Spec Mix  
[www.specmix.com](http://www.specmix.com)

## "Hands-on" Masonry: Materials and Systems

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**Time:** Noon to 1:30 p.m.

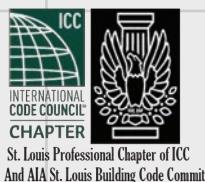
**Location:** Joint Apprenticeship Training Center  
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**Co-Sponsor:** Missouri Brick  
[www.mobrickco.com](http://www.mobrickco.com)



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



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.

## 2021 INDUSTRY CONTRIBUTORS

### PLATINUM PLUS

Midwest  
Block & Brick

### SILVER

Lemay  
Concrete Block

### PLATINUM

Irwin Products, Inc.  
Raineri Building Materials  
Spec Mix

### GOLD

Earthworks Stone  
Missouri  
Brick & Supply

### BRONZE

Building Products Corporation  
Caliber Cast Stone  
Illinois Products Corporation

Mortar Net Solutions  
Richards Brick