

2024  
2025

# SEMINAR SCHEDULE



## MASONRY INSTITUTE OF ST. LOUIS

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

Seminar participants earning continuing education credits will receive a certificate after each event. Annual certificates showing credits earned through the Masonry Institute of St. Louis are available upon request.



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



The Masonry Institute of St. Louis is a registered provider of AIA Continuing Education under Provider Number G137. All seminars listed on the schedule have been approved for AIA LU/HSW credits.



All attendees receive Professional Development Hours (PDH) for each of the seminars listed on the schedule.

### 2024 MASONRY INDUSTRY CONTRIBUTORS

#### PREMIER PARTNERS

Heitkamp Masonry  
Best Block

#### PLATINUM

John J. Smith Masonry Co.  
Raineri Building Materials, Inc.  
Irwin Products, Inc.  
Leonard Masonry  
Earthworks Stone

#### GOLD

Richards Brick Company  
Spec Mix

#### SILVER

Lemay Concrete Block

#### BRONZE

Building Products Corporation • Cadbox • Arthur J. Lager Monument • Nuway Concrete Forms • Trends In Tile

#### FRIENDS OF MASONRY

Caliber Cast Stone • Mortar Net • Stockman Stoneworks • King's Material, Inc. • Outdoor Oasis  
Masonmade Design + Supply • Masonry Cosmetics, Inc. • Midwest Cast Stone  
Waldschmidt Equipment, LLC • Warrenton Steel



#### HOW TO REGISTER FOR SEMINARS:

DIRECTLY FROM EMAIL INVITATION | CALL 314-645-5888  
WWW.MASONRYSTL.ORG | SCAN THE QR CODE

**2024**  
**2025**

# ARCHITECTURAL SEMINARS

All Architectural Seminars are held at the St. Louis Masonry Center, 1429 South Big Bend Boulevard, from Noon–1PM unless otherwise noted. Lunch is provided. Vegetarian meals are available upon prior request.

## ENHANCING RESILIENCY: THE ROLE OF REINFORCED HOLLOW CLAY MASONRY

Wednesday, September 25, 2024

**Speaker:** Steven Judd, SE  
Interstate Brick

Resiliency is a popular buzzword, but what does it mean and how does it relate to the built environment? Join Steven Judd for the answers to these questions and more. Steven will discuss resiliency as it relates to society and architecture. The history and process of brickmaking will be shown to understand its physical properties and how those properties relate to resilient performance. Steven will share how testing performed on hollow structural clay masonry demonstrates structural brick's durability and resistance to fire, projectiles, and ballistics.

**Sponsor:** John J. Smith Masonry Co.  
[www.Smithmasonry.com](http://www.Smithmasonry.com)

## FLASHING AND MOISTURE CONTROL BEST PRACTICES: MASONRY WALL ASSEMBLIES

Wednesday, October 30, 2024

**Speaker:** Sunup Mathew, SE  
International Masonry Institute

Moisture management for exterior masonry wall assemblies is essential to protecting a building and its occupants from moisture-related issues. Join Sunup Mathew as he examines best practices for flashing strategies at critical locations like base-of-wall, sills, window heads, shelf angles, top-of-wall, and roof-to-wall interfaces. Sunup will discuss how to mitigate staining, spalling, cracking and more so that you can gain a better understanding of appropriate flashing system materials, and strategies to help you create an optimal moisture control design and installation.

**Sponsor:** Lampkin Masonry  
[www.Lampkinmasonry.com](http://www.Lampkinmasonry.com)

## COST EFFECTIVE ENERGY EFFICIENT DESIGN AND HIGH-PERFORMANCE MASONRY WALLS

Wednesday, November 20, 2024

**Speaker:** Dr. W. Mark McGinley, PhD, PE, FASTM, FTMS  
University of Louisville, KY

If you're committed to advancing sustainable construction methods while maintaining economic feasibility, join Dr. W. Mark McGinley as he provides valuable information on integrating advanced masonry techniques with sustainable design principles. Dr. McGinley will discuss how to optimize the thermal performance of masonry walls, reduce construction costs and meet stringent energy codes. Topics include innovative design strategies and construction practices that enhance energy efficiency and environmental performance as well as passive house and ambient design.

**Sponsor:** Spec Mix  
[www.Specmix.com](http://www.Specmix.com)

## BRIDGING THE PAST: RESTORATION OF HISTORIC MASONRY BRIDGES AND STRUCTURES

Wednesday, January 29, 2025

**Speaker:** Peter M. Babaian, PE, SE  
Simpson Gumpertz & Heger

Restoration of historic structures requires a delicate balance between maintaining historic characteristics and implementing technological advancements. Repairs using historic materials and replicating original details may not solve systemic problems or provide a long-term, durable rehabilitation. Join Peter Babaian as he examines the benefits of using contemporary materials and detailing to repair historic structures and compare how these details and techniques are implemented to eliminate complications and maintain the original aesthetic of the structure.

**Sponsor:** Leonard Masonry  
[www.Leonardmasonry.com](http://www.Leonardmasonry.com)

## NEXT GENERATION CONCRETE MASONRY SHAPES AND THEIR IMPACT ON WALL DESIGN & PERFORMANCE

Wednesday, February 26, 2025

**Speaker:** Cory Hupp, Director of National Accounts  
Concrete Products Group

Join Cory Hupp as he introduces the next generation of concrete masonry units allowed by recent updates to the ASTM standard governing loadbearing Concrete Masonry Units, including discussion on the cost and structural efficiency and energy conservation benefits of these new designs.

**Sponsor:** Bricklayers Local No. 1 of Missouri  
[www.Bacstl.com](http://www.Bacstl.com)

## MASONRY LESSONS LEARNED: HOW TO CREATE AESTHETIC EXTERIOR SITE WALLS

Wednesday, March 26, 2025

**Speaker:** Joe Alberts, Director of Industry Development  
International Masonry Institute

If exterior masonry site walls are detailed and constructed poorly, it can lead to unsightly masonry failures such as stains, cracks, and spalling. While masonry site walls do not enclose occupied space, you still must follow masonry codes and industry standards to prevent deterioration and staining. Join Joe Alberts to discover the importance of properly detailing masonry walls in the landscape, such as dumpster enclosures, garden walls, planters, screen walls, and signage.

**Sponsor:** Caliber Cast Stone  
[www.Calibercaststone.com](http://www.Calibercaststone.com)

## ESSENTIAL MASONRY TIPS FOR DESIGN AND CONSTRUCTION DETAILING

Wednesday, April 23, 2025

**Speaker:** David T. Biggs, PE, SE  
Biggs Consulting Engineering

Masonry offers creative and original aesthetic design options while also providing practical, constructible buildings. Project success is greatly affected by the design details and their implementation by mason contractors. Join David Biggs as he reflects on 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, shelf angles, mortar selection and sample panels. David will equip you with the essential tools and tips to elevate your masonry projects to the next level.

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

## SEAMLESS TRANSITIONS: PERFECTING MATERIAL CHANGES IN MASONRY DESIGN

Wednesday, May 28, 2025

**Speaker:** Michael Schuller, PE  
Atkinson-Noland & Associates, Inc.

In recent years there has been a deliberate shift in architectural design towards incorporating a variety of materials and textures into building facades. Mixing materials is an appealing way to introduce originality to your design, but transitions between materials must be detailed carefully to accommodate differential movement while maintaining performance of the weather envelope. Join Mike Schuller as he examines details for horizontal bands of varying materials, what to do when masonry abuts other finishes, and review design concepts for accommodating brick masonry expansion and concrete masonry shrinkage.

**Sponsor:** Best Block  
[www.Bestblock.com](http://www.Bestblock.com)

**REGISTER FOR ALL SEMINARS AT (314) 645-5888 OR [masonrystl.org](http://masonrystl.org)**

# 2024 **ENGINEERING** SEMINARS 2025

All Engineering Seminars are held at the St. Louis Masonry Center, 1429 South Big Bend Boulevard, from Noon–1PM unless otherwise noted. Lunch is provided. Vegetarian meals are available upon prior request.

## **STRUCTURAL FUNDAMENTALS: MASONRY NOTES DETAILS AND PROTOTYPES**

Wednesday, September 18, 2024

**Speaker:** Brady Golinski, PE  
FORSE Consulting

Join Brady Golinski as he discusses the how and why specific to each element of structural masonry including the specifications for block strength, mortar type and grout strength. Brady will highlight typical 2D and 3D structural masonry details including practical usage, limitations and common errors. Brady will also explore different types of wall design.

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

## **STRUCTURAL DYNAMICS: EFFECTIVE USE OF MASONRY MOVEMENT JOINTS**

Wednesday, November 13, 2024

**Speaker:** Beth Suminski, PE, SE  
FORSE Consulting

Join Beth Suminski as she addresses the movement characteristics of vertical masonry wall systems and compares the differences between architectural veneer and structural reinforced masonry. Beth will focus on best practices for design and construction of expansion and control joints to accommodate and/or restrict masonry material movement.

**Sponsor:** *Best Block*  
[www.Bestblock.com](http://www.Bestblock.com)

## **THE BACKBONE OF BUILDINGS: UNDERSTANDING LOADBEARING MASONRY WALLS**

Wednesday, December 4, 2024

**Speaker:** Philippe Ledent, PE, SE  
Masonry Institute of Michigan

Come get the “load-down” on loadbearing masonry walls with Philippe ‘Phil’ Ledent. Phil will review the TMS 402 requirements as they relate to the design of bearing wall structures. An overview of common gravity loads (dead, live, roof live, snow) will be presented and compared with the high axial capacity that masonry walls offer. Additionally, Phil will examine common lateral loads, including wind and seismic, and how masonry walls can resist combined axial and lateral loads.

**Sponsor:** *CadBlox*  
[www.Cadblox.com](http://www.Cadblox.com)

## **MASTERING STRUCTURAL MASONRY DESIGN WITH ELEMASONRY**

Wednesday, January 22, 2025

**Speaker:** Jason Thompson, PE  
Coltivormae, LLC

Jason Thompson returns to MISL and demonstrates how EleMasonry assists designers quickly and easily to design structural masonry walls, columns, beams and pilasters. Code-compliant designs, using all current codes and standards, are provided through a fully transparent design process and output, allowing users to review and check all design calculations. Jason will explain how both strength design and allowable stress design methodologies are supported by this innovative and unique software system.

**Sponsor:** *John J. Smith Masonry*  
[www.Smithmasonry.com](http://www.Smithmasonry.com)

## **DURABILITY AND PERFORMANCE OF FRP IN MASONRY STRUCTURES**

Wednesday, February 19, 2025

**Speaker:** Dr. John J. Myers, PhD, PE  
Missouri University of Science & Technology

Last year, Dr. John Myers discussed the new TMS 402-22 Appendix D for using glass fiber-reinforced polymer (GFRP) which is the first standard in the U.S. for the use of GFRP reinforcement for masonry. Dr. Myers returns for a deeper discussion on the different types and advances in other FRP bar materials and how they can be used in new masonry construction and how to reinforce and strengthen existing masonry with real world examples presented.

**Sponsor:** *John J. Smith Masonry*  
[www.Smithmasonry.com](http://www.Smithmasonry.com)

## **STRUCTURAL CLAY MASONRY: BRIDGING TRADITION WITH MODERN ENGINEERING**

Wednesday, March 19, 2025

**Speaker:** Sam Rubenzer, PE, SE  
FORSE Consulting

Explore the principles, techniques and best practices of this timeless building method by joining Sam Rubenzer as he covers the essential aspects of designing with structural clay masonry. Discussion will include material properties, structural analysis, movement joints, constructability considerations for practical masonry detailing and specification. Sam will also explain the latest advancements in structural masonry design technology.

**Sponsor:** *Raineri Building Materials*  
[www.Raineri-materials.com](http://www.Raineri-materials.com)

## **MASONRY DEFENSES: BUILDING BLAST RESISTANT STRUCTURES**

Wednesday, April 16, 2025

**Speaker:** Hani Hanna, PE, SE  
US Army Corps of Engineers

Last year Hani Hanna presented an overview of blast design requirements. Hani returns for a deeper look at how to design and construct masonry structures capable of withstanding explosive impacts. Hani discusses integrating advanced materials and explains through rigorous testing and simulation, innovative solutions were developed to dissipate blast energy, ensuring structural integrity and safety. This is a “not to miss” program to learn more about defense infrastructure with critical insights into the protective capabilities of masonry in high-risk environments.

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

## **DEFYING THE WINDS: STRUCTURAL DESIGN FOR TORNADO LOADS ON BUILDINGS**

Wednesday, May 19, 2025

**Speaker:** Dr. Marc L. Levitan, PhD  
National Institute of Standards and Technology

Until now, tornado hazards have not been considered in the design of conventional buildings, despite the fact that tornadoes and tornadic storms cause more fatalities and insured losses than hurricanes and tropical storms. This gap is addressed for the first time in ASCE 7–22, which includes requirements for tornado loads. Join Dr. Marc Levitan for an overview of the new tornado provisions in ASCE 7–22, along with background on the need for such requirements and their development. Marc will provide a basic understanding of tornado hazards, the ASCE 7–22 tornado load methodology, significant differences between procedures for determination of wind loads and tornado loads, and changes to load combinations including tornadoes.

**Sponsor:** *John J. Smith Masonry*  
[www.Smithmasonry.com](http://www.Smithmasonry.com)

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# 2024 **CODE OFFICIAL** SEMINARS 2025

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

All Code Official Seminars are held at the St. Louis Masonry Center, 1429 South Big Bend Boulevard, from Noon-1PM unless otherwise noted.  
Lunch is provided. Vegetarian meals are available upon prior request.

## DESIGN AND CONSTRUCTION OF MASONRY FIREPLACES AND CHIMNEYS

Wednesday, October 16, 2024

**Speaker:** Dana Martini, Technical Service  
Superior Clay Corporation

Have you ever wondered about the physics of how and why a masonry fireplace works? Join Dana Martini as he discusses the proper masonry fireplace and chimney design, how to specify a masonry fireplace and the IRC code pertaining to the design and construction of masonry fireplace and chimneys. Dana will explain the history of the masonry fireplace, the emissions of wood burning fireplaces, proper chimney sizing, safety and how the consideration of the building envelope and all other sources of exhaust is addressed.

**Sponsor:** Lampkin Masonry  
[www.Lampkinmasonry.com](http://www.Lampkinmasonry.com)

## MORTAR AND GROUT: ESSENTIAL COMPONENTS IN MASONRY CONSTRUCTION

Wednesday, January 15, 2025

**Speaker:** Bruce Augustin, PE, SE  
Masonry Institute of St. Louis

Join Bruce Augustin for a discussion on mortar and grout, the vital components that ensure the strength and durability of masonry structures. Bruce will cover both the proportion and property specifications of mortar, the proportions and strength requirements of grout, and the functions and best practices for mixing and applying each component to the masonry assembly. Topics to include code requirements, why and where we grout, and why, when, and what will be inspected. Whether you're a seasoned professional or new to the industry, gain valuable insights into how mortar and grout contribute to the integrity and longevity of masonry structures.

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

## MASONRY MASTERY: ENHANCING FIRE SAFETY AND SOUND INSULATION

Wednesday, April 9, 2025

**Speaker:** Nick Lang, PE  
Concrete Masonry & Hardscapes Association

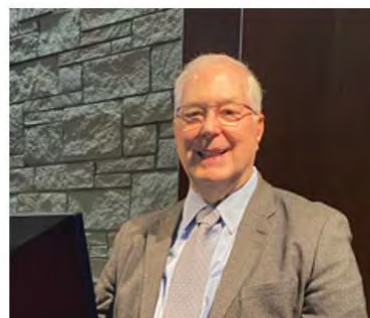
The International Building Code (IBC) references ACI/TMS 216.1, Standard Method for Determining Fire Resistance of Concrete and Masonry Assemblies and TMS 302, Standard Method for Determining Sound Transmission Class Rating for Masonry Walls. Join Nick Lang for an overview of these two standards, including their development, relationship to the IBC, key updates from previous versions, and using the standards to calculate fire resistance and sound ratings of masonry assemblies.

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



Code Official Seminars have been submitted for ICC Continuing Education credits by the St. Louis Professional Chapter of ICC. ICC Preferred Provider 1163 CEU Pending.

*Come Join Us for a Lunch and Learn!  
Our speakers are knowledgeable and fascinating. See you soon.*



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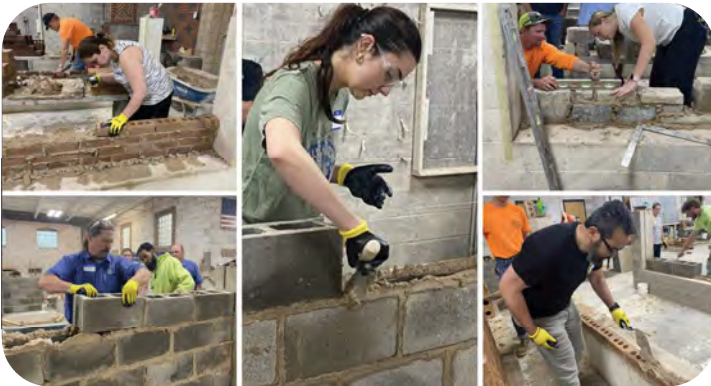
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## Don't Miss Hands-On Masonry! "Hands-On" Masonry: Materials And Systems (Limited Seating)



Wednesday, May 7, 2025

Time: Noon to 2:00 p.m.

Location: Joint Apprenticeship Training Center  
4350 Green Ash Drive  
Earth City MO 63045

Pick up the trowel and get your hands dirty (maybe your clothes too!) trying out your own block, stone, tuckpointing and bricklaying skills. Learn first-hand how basic masonry materials come together to form durable and safe building components. Apprenticeship instructors and apprentices will be on hand to assist attendees with converting project document information into real-world masonry systems.

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

### PREMIER CONTRIBUTORS



### PLATINUM CONTRIBUTORS

