

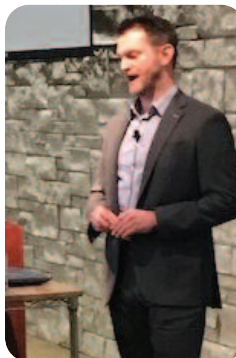
2018 2019 SEMINAR SCHEDULE

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.

REGISTERED PROVIDER

The Masonry Institute of St. Louis is a Registered Provider with the AIA Continuing Education System. Participants in all workshops presented by MISL earn Continuing Education Credits. A certificate showing credit earned is mailed annually in December. Unless otherwise indicated, seminars provide 1.0 hours of AIA HSW credits and satisfy state professional development hours (PDH) requirements for Architectural and Engineering licensure.



MISSION STATEMENT

The purpose of the Masonry Institute of St. Louis is to promote the use of quality masonry materials and union masonry construction by serving as an educational and promotional resource for the use of brick, stone, glass and concrete masonry products in the commercial and residential markets.

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



2018 Masonry Industry Contributors

PLATINUM LEVEL

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

SILVER LEVEL

Continental Cast Stone
Earthworks, Inc.
Goedecke Co., Inc.

BRONZE LEVEL

Advanced Building Products
Building Products Corporation
CAD BLOX, LLC
Caliber Cast Stone
Illinois Products Corporation
Lemay Concrete Block
Midwest Cast Stone
Nu Way Concrete Forms, Inc.
Richards Brick



Certified Mason
Contractor Credits



AIA Continuing
Education Credits
(HSW)



MISL Professional
Development
Hours



Bricklayers'
Local #1
of Missouri



International
Masonry
Institute

REGISTER FOR SEMINARS AT
(314) 645-5888 OR masonrystl.org

2018 2019 ARCHITECTURAL SEMINARS

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.

MOISTURE CONTROL FLASHING SYSTEMS

Wednesday, September 26, 2018

Speaker: Robert E. Campbell
International Masonry Institute

Join Bob Campbell as he returns to discuss best practices for designing and constructing exterior masonry wall moisture management systems, with an emphasis on contemporary flashing options. Topics to include code related requirements, current flashing system choices, and key flashing system components. Theories related to flashing location, installation, and overall workmanship will also be discussed.

Sponsor: **Advanced Building Products**
www.advancedbuildingproducts.com

MASONRY MOVEMENT JOINTS

Wednesday, October 24, 2018

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

All building materials require movement joints to allow for environmental and system movements. This presentation looks at the types of movement joints used in masonry construction and their applications. Discussion to include: expansion joints, control joints and industry joint size, location and detailing recommendations. Structural related movement joint issues will also be discussed.

Sponsor: **Caliber Cast Stone**
www.calibercaststone.com

MASONRY FIRE & SOUND STANDARDS UPDATE

Wednesday, November 14, 2018

Speaker: Nicholas R. Lang
National Concrete Masonry Association

The 2018 International Building Code (IBC) references TMS 216.1-14, *Standard Method for Determining Fire Resistance of Concrete and Masonry Assemblies* and TMS 302-12, *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: **Midwest Block & Brick**
www.midwestblock.com

NONDESTRUCTIVE EVALUATION & TESTING OF MASONRY

TUESDAY, January 15, 2019

Speaker: Michael P. Schuller
Atkinson-Noland & Associates

Nondestructive evaluation methods are valuable approaches for evaluating existing masonry, both historic and modern. Masonry strengths can be measured using in situ test methods, without resorting to destructive sample removal for laboratory testing. Discussion to include mortar hardness testing, pulse velocity measurements, surface penetrating radar, infrared thermography, flatjack testing, and in situ shear tests. The planning process of an investigation, following published codes and guidelines, will also be discussed.

Sponsor: **McCarthy**
www.mccarthy.com

MASONRY TOOLS FOR BIM

Wednesday, February 27, 2019

Speaker: Mark Swanson
International Masonry Institute

The BIM for Masonry initiative (BIM-M) has developed a tool set for modeling masonry within REVIT and other applications. Join Mark Swanson for an overview of how free BIM-M plugins and software can be used to increase the overall level of masonry detailing, leading to safer and more efficient masonry wall design and construction. Topics to include accurate virtual coursing, bond beam and rebar tools, and minimizing field unit cuts from non-modular dimensioning.

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

"HANDS-ON" MASONRY: MATERIALS & SYSTEMS

Tuesday, Wednesday, Thursday, March 19, 20, 21, 2019

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 brick laying skills. Learn firsthand 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.

Sponsor: **John J. Smith Masonry Company**
www.smithmasonry.com

MASONRY VENEER & BIM

Wednesday, April 24, 2019

Speaker: Tom Cuneio
CAD BLOX, LLC

Design and construction work flows are changing rapidly as more projects migrate to building information modeling (BIM), including anchored masonry veneers. BIM can be used to maximize the color, texture, and bond pattern options of masonry during design, as well as ensure safe and durable installation through BIM coordination. Join Tom Cuneio as he presents case studies highlighting these concepts, along with a look to the future of veneer and BIM processes.

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

THOMAS F. WALSH MEMORIAL LECTURE: SURVIVING EARTHQUAKES, VOLCANOES & TIME

Wednesday, May 22, 2019

Speaker: David T. Biggs
Biggs Consulting Engineering

Masonry was the predominant building material of the ancients and numerous examples of marvelous masonry have survived natural disasters and the ravages of time. Modern archeologists, conservators and engineers have spent decades trying to restore and protect these sites that are so important to our masonry heritage. Please join our favorite "globe trekker", David Biggs, for a presentation of historic masonry sites from his past travels to Nepal, Egypt, Italy and Peru.

Sponsor: **Spencer Brickwork**
www.spencerbrickwork.com

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2018 2019 ENGINEERING SEMINARS

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MASONRY CODES & STANDARDS UPDATE

Wednesday, September 19, 2018

Speaker: W. Mark McGinley
University of Louisville

This seminar will familiarize attendees with the development process of the TMS 402, *Building Code Requirements & Specification for Masonry Structures*, and TMS 602, *Specification for Masonry Structures*, while highlighting major changes that were incorporated into the 2012 and 2015 IBC editions. A look forward to the 2016 TMS documents and the 2018 IBC will also be discussed.

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

STRUCTURAL MASONRY DETAILING: CONCRETE MASONRY BEAM EXAMPLES

Wednesday, October 17, 2018

Speaker: Phillip Shinn
Jacobs

As a follow up to last season's discussion of beam and lintel options, join Phillip Shinn for detailed concrete masonry beam design examples using the 2013 TMS 402 strength design method. Discussion to include beam configuration and load determination, unit type and strength options, grouting and reinforcement requirements, and beam deflection serviceability. Phillip will also demonstrate an electronic spreadsheet set up to assist with beam design options and required calculations.

Sponsor: **Goedecke Company, Inc.**
www.goedeckeonline.com

CMU UPDATE: CONFIGURATIONS, STRENGTHS, & CODE CHANGES

TUESDAY, November 13, 2018

Speaker: Nicholas R. Lang
National Concrete Masonry Association

There have been significant changes to CMU codes and standards over the past several years. With local adoption of the 2018 IBC, these changes will provide structural designers with new CMU design options. Join Nick Lang as he explores these changes including CMU evolution, ASTM C90 requirements, changes to compressive strengths, updates to design provisions contained in the TMS 402 and 602, and how these changes impact resulting designs and properties of concrete masonry assemblies.

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

NONDESTRUCTIVE EVALUATION & TESTING OF MASONRY

Wednesday, January 16, 2019

Speaker: Michael P. Schuller
Atkinson-Noland & Associates

Nondestructive evaluation methods are valuable approaches for evaluating existing masonry, both historic and modern. Masonry strengths can be measured using in situ test methods, without resorting to destructive sample removal for laboratory testing. Discussion to include mortar hardness testing, pulse velocity measurements, surface penetrating radar, infrared thermography, flatjack testing, and in situ shear tests. The planning process of an investigation, following published codes and guidelines, will also be discussed.

Sponsor: **McCarthy**
www.mccarthy.com

STRUCTURAL MASONRY DETAILING: CONFINED LAP SPLICES

Wednesday, February 20, 2019

Speaker: Edwin T. Huston
Smith & Huston Consulting Engineers

Most designers who engineer reinforced masonry know that code provisions for lap splice lengths have been evolving over the past few code editions. A newer confinement-steel option is available that has the potential to significantly reduce the lap splice lengths, especially for larger diameter bars, through confinement of the structural reinforcement. Join Ed Huston for an overview of this newer option based on the 2016 TMS 402 lap splice provisions.

Sponsor: **CAD BLOX, LLC**
www.cadblox.com

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Sponsor: **John J. Smith Masonry Company**
www.smithmasonry.com

STRUCTURAL MASONRY DETAILING: STONE ANCHORING

Wednesday, April 17, 2019

Speaker: Scott W. Walkowicz
Walkowicz Consulting Engineers

This presentation focuses on anchoring large-scale stone and is generally applicable to both natural quarried/cut stone and cast stone. Design considerations to be discussed include stone size and shape, and the impact of the backup system on anchor capacity and overall movement of the stone. Available design information from codes and standards, published industry technical guides, and the presenter's own experience incorporating FEA software analysis will also be discussed.

Sponsor: **Lampkin Masonry, Inc.**
www.lampkinmasonry.com

STRUCTURAL MASONRY DETAILING: SEISMIC UPDATE

Wednesday, May 15, 2019

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

Join Darrell McMillian for an overview of seismic detailing for low-rise concrete masonry structures based on the 2018 International Building Code (IBC), which references TMS 402, *Building Code Requirements for Masonry Structures* and TMS 602, *Specifications for Masonry Structures*. Topics to include seismic design category, shear wall classification, minimum seismic reinforcement, and the stiffness effects of wall openings. A general discussion of roof diaphragm selection and connections will also be included.

Sponsor: **Continental Cast Stone**
www.continentalcaststone.com



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2018
2019
CODE OFFICIALS

MOISTURE CONTROL FLASHING SYSTEMS

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International Masonry Institute

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www.smithmasonry.com

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