

2016 2017 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. Most seminars earn 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.



2016 Masonry Industry Contributors

PLATINUM LEVEL

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

SILVER LEVEL

Building Products Corporation
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Wire Bond
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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

2016 2017 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.

MASONRY AND ENERGY CODES - EFFECTIVE COMPLIANCE METHODS

Wednesday, September 21, 2016

Speaker: W. Mark McGinley, University of Louisville
Achieving energy code compliance is becoming increasingly more difficult using the code prescriptive methods. Whole building analysis is one alternative method that will produce more cost effective designs for exterior masonry assemblies. This presentation provides an overview of energy code provisions, reviews energy studies performed utilizing whole building analysis, and resources available for designers, such as ACI/TMS 122, *Guide to Thermal Properties of Concrete and Masonry Systems*.

Sponsor: **Building Products Corporation**
www.buildingproductscorp.com

CONCRETE MASONRY STORM SHELTER DESIGN: LESSONS LEARNED

Wednesday, October 26, 2016

Speaker: Scott Walkowicz, Walkowicz Consulting Engineers
Due to its inherent strength and aesthetic potential, concrete masonry is a prime system of choice for meeting the 2015 *International Building Code (IBC)* storm shelter requirement. Join Scott Walkowicz for "lessons learned" while performing recent storm shelter designs. Discussion to include: storm shelter loading, potential wall widths and heights, expected reinforcement and anchorage levels, and tips for optimizing concrete masonry storm shelters.

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

NEW TMS CAST STONE STANDARDS

Wednesday, November 16, 2016

Speaker: Jason J. Thompson,
National Concrete Masonry Association
The Masonry Society (TMS) committee on cast stone has developed three new standards: TMS 404, *Standard for the Design of Architectural Cast Stone*; TMS 504, *Standard for the Fabrication of Architectural Cast Stone*; TMS 604, *Standard for the Installation of Architectural Cast Stone*. Jason Thompson, committee secretary, will review the standards, their differences, and why they are needed.

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

WHAT NON-ENGINEERS NEED TO KNOW ABOUT STRUCTURAL MASONRY

Wednesday, January 25, 2017

Speakers: Robert E. Campbell,
International Masonry Institute
Sam M. Rubenzer, FORSE Consulting

This presentation discusses structural masonry attributes and how engineers typically approach loadbearing masonry design. Topics include: current structural masonry design methods, loadbearing wall case studies, interior partitions, shear walls, foundation walls, stair towers, fire walls and hybrid structures. Keys for providing economical and sustainable projects by utilizing masonry that is not over-designed, or under-utilized, will also be discussed.

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

19TH ANNUAL MISL NEW PRODUCTS SHOW

Wednesday, February 8, 2017

The MISL product show returns for the 19th season. Join us to discover what's new, different, or even the same about great masonry products. This is a "not to miss" show for anyone in the building design and construction communities.

Time: 11:00 a.m. to 2:00 p.m.
Sponsors: **MISL Supplier Contributors**
RSVP not required.

ANCHORED VENEER AND MID-RISE WOOD STUD BUILDINGS

Wednesday, March 29, 2017

Speaker: Darrell McMillian, MISL
Detailing anchored veneer on mid-rise wood structures (up to five stories) can be a challenge due to the prescriptive veneer height limits of TMS 402, *Building Code Requirements for Masonry Structures*. Join Darrell McMillian as he explores possible design and detailing options including alternate veneer design methods, differential movement considerations, and detailing solutions for door, window and other veneer penetrations.

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

ROLE OF MASONRY IN SUSTAINABLE DESIGN AND LEED V4

Wednesday, April 26, 2017

Speaker: Christine A. Subasic, C. Callista Subasic
LEED version 4 contains significant changes in the area of Materials and Resources. Join masonry expert Christine Subasic for an overview of sustainable design and the LEED v4 Rating System. She will address LEED v4 credit categories and how masonry products can contribute to sustainable design and LEED. Christine will also discuss the ways sustainable design goes beyond the U.S. Green Building Council's LEED Rating System.

Sponsors: **Enloe Enterprise** - www.enloenterprise.com
Mortar Net Solutions - www.mortarnet.com

THOMAS F. WALSH MEMORIAL LECTURE: "CONSERVING ANCIENT SITES FROM THE EMPIRE OF ALEXANDER THE GREAT"

Wednesday, May 24, 2017

Speaker: David T. Biggs, Biggs Consulting Engineering
Archeologists have discovered countless heritage sites from some of the oldest civilizations within the Middle East. Today, teams of archeologists, architects, engineers and conservators are tasked with conserving and restoring these ancient treasures. Join David Biggs for first-hand accounts of the masonry conservation challenges needed to protect various sites in Egypt, Turkey and Iraq, including the Pyramids, the fortress city of Gordion, and Erbil, the oldest continuously occupied citadel in the world.

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

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2016 2017 ENGINEERING SEMINARS

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RATIONAL DESIGN OF MASONRY VENEERS

TUESDAY, September 20, 2016

Speaker: W. Mark McGinley, University of Louisville
Anchored masonry veneer systems are typically designed using the prescriptive provisions of TMS 402-13, Chapter 12. However in high wind and seismic zones, or veneer constructed with large distances between the backing walls and the veneer, the system must be designed using the Chapter 12 alternative rational design provisions. Join Mark McGinley for an overview of these provisions and rational veneer wall system sample designs.

Sponsor: **Heitkamp Masonry**
www.heitkampmasonry.com

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

NEW TMS CAST STONE STANDARDS

TUESDAY, November 15, 2016

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National Concrete Masonry Association
The Masonry Society (TMS) committee on cast stone has developed three new standards: TMS 404, *Standard for the Design of Architectural Cast Stone*; TMS 504, *Standard for the Fabrication of Architectural Cast Stone*; TMS 604, *Standard for the Installation of Architectural Cast Stone*. Jason Thompson, committee secretary, will review the standards, their differences, and why they are needed.

Sponsor: **Midwest Cast Stone**
www.midwestcaststone.com

FINITE ELEMENT SOFTWARE FOR MASONRY DESIGN

TUESDAY, January 24, 2017

Speaker: Sam M. Rubenzer, FORSE Consulting
To solve complex designs effectively and efficiently, more and more structural designers are turning to Finite Element Analysis (FEA). Software companies have responded by developing FEA programs that support masonry materials. Join Sam Rubenzer for an overview of FEA masonry assumptions, modeling masonry elements, supported loading and design codes, and the integrity of results when designing masonry components with FEA.

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www.midwestblock.com

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Sponsors: **MISL Supplier Contributors**
RSVP not required

2015 IBC MASONRY SPECIAL INSPECTIONS

Wednesday, March 22, 2017

Speaker: John Chrysler, Masonry Institute of America
The 2015 International Building Code (IBC) now defers to the 2013 TMS 402, *Building Code Requirements for Masonry Structures*, for the type and frequency of masonry special inspections. Join John Chrysler, chair of the TMS 402/602 Construction Requirements Subcommittee, 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.

Sponsor: **Grant Contracting**
www.grantcontracting.com

ASD VS SD – A MASONRY CAGE FIGHT

Wednesday, April 12, 2017

Speaker: Richard M. Bennett, University of Tennessee
TMS 402, *Building Code Requirements for Masonry Structures*, has two design methods: allowable stress design (ASD) and strength design (SD). This presentation will compare the differences, advantages, and disadvantages of each design method, with the comparison being made through examples. Examples will include beams, pilasters, bearing walls, and shear walls. Both ease of design and amount of required reinforcement will be considered.

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

USING JOINT REINFORCEMENT AS PRIMARY SHEAR REINFORCEMENT

Wednesday, May 17, 2017

Speaker: Max L. Porter, University Professor Emeritus, Iowa State University
TMS 402, *Building Code Requirements for Masonry Structures*, allows joint reinforcement to satisfy minimum seismic reinforcement requirements and to serve as primary shear reinforcement in concrete masonry shear walls for both allowable stress design (ASD) and strength design (SD). Max Porter will discuss the history of using joint reinforcement as shear reinforcement, recent research supporting that use, and related TMS 402 code provisions.

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

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ST. LOUIS
MASONRY
CENTRE

2016 2017 CODE OFFICIALS

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Sponsor: **Midwest Cast Stone**

www.midwestcaststone.com

MINIMUM SEISMIC REINFORCING FOR RESIDENTIAL MASONRY FIREPLACES

Wednesday, January 11, 2017

Speaker: Darrell W. McMillian, MISL

Join Darrell McMillian for an overview of the minimum seismic reinforcing required by the 2015 International Residential Code (IRC) for residential masonry fireplaces. Topics to include: IRC masonry fireplace and chimney definitions, applicable Seismic Design Category requirements, vertical and horizontal reinforcement requirements, and IRC seismic anchorage requirements for masonry fireplaces.

Sponsor: **Lampkin Masonry**

www.lampkinmasonry.com

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Sponsor: **Grant Contracting**

www.grantcontracting.com



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Darrell McMillian
Technical Director

Gobberdiel
Graphic Design
Design & Production

Phone: 314-645-5888
Fax: 314-645-5898
www.masonrystl.org
www.homeDESIGNstl.com