

2017 2018 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.

Beginning this seminar series and moving forward, reminder notifications will ONLY BE SENT VIA EMAIL.

Your attendance is very important – so to receive notifications, please provide MISL with an email address.

You may provide an email address via phone, fax, email or visit our website: www.masonrystl.org and click the "Contact Us" page.

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



2017 Masonry Industry Contributors

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York Manufacturing Company



Certified Mason
Contractor Credits



AIA Continuing
Education Credits
(HSW)



MISL Professional
Development
Hours



Bricklayers'
Local #1
of Missouri



International
Masonry
Institute

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(314) 645-5888 OR masonrystl.org**

2017 2018 ARCHITECTURAL SEMINARS

COMMON SENSE APPROACH TO MASONRY QUALITY ASSURANCE

Wednesday, September 27, 2017

Speaker: Phillip J. Samblanet
The Masonry Society (TMS)

In the United States, quality assurance programs have become commonplace to help ensure that construction complies with the design intent. In this presentation, Phillip Samblanet, Executive Director of The Masonry Society, will discuss the minimum quality assurance requirements in TMS 402/602 noting limitations in these requirements while providing tips to achieve reasonable, cost effective, and appropriate quality assurance on your masonry projects.

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

CONCRETE MASONRY STORM SHELTERS

Wednesday, October 25, 2017

Speaker: David A. Gillick
Masonry Structural Coalition

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. This presentation discusses reinforced concrete masonry storm shelter design including storm shelter loading, potential wall widths and heights, expected reinforcement and anchorage levels, and tips for collaborating with mason contractors during design development through the use of 3D modeling and preliminary budgeting.

Sponsor: Midwest Block & Brick
www.midwestblock.com

INNOVATIVE BRICK BUILDING DESIGN

Wednesday, November 29, 2017

Speaker: Robert E. Campbell
International Masonry Institute

By understanding masonry's modular design, architects are able to open the door to great innovation. Through the use of numerous creative design examples, this seminar will review innovative ways to use brick masonry to create new aesthetics. Standards and methods for upholding industry requirements for structural integrity, moisture and thermal control will also be integrated in the discussion of material detailing.

Sponsor: 3DiQ
www.3DiQinc.com

3D VISUALIZATION TOOLS FOR DOCUMENTING MASONRY

Wednesday, January 17, 2018

Speaker: Michael Schuller
Atkinson-Noland & Associates

Photogrammetry and laser scanning can capture surface conditions of existing construction in great detail and current computing power is leading to their mainstream usage. Resulting surface models are used for documenting and visualizing conditions, modeling software input, and to provide models for stone fabricators tasked with carving replacement pieces. This presentation provides an overview of photogrammetry and laser scanning illustrated by project examples, along with data capturing recommendations for developing accurate models.

Sponsor: Earthworks
www.earthworksstone.com

ENERGY IMPACTS OF CONCRETE MASONRY WALLS

Wednesday, February 28, 2018

Speaker: Thomas Young
Northwest Concrete Masonry Association

Energy codes typically require additional insulation for single-wythe concrete masonry walls to prescriptively comply. This increases first cost and reduces intended durability and impact resistance. Tom Young presents results of a recent study evaluating the impacts of high thermal mass walls in ASHRAE climate zone 4C (Pacific Northwest) as it relates to design performance, prescriptive and nonprescriptive energy code compliance, and optimizing overall energy savings.

Sponsor: Midwest Block & Brick
www.midwestblock.com

SUSTAINABLE CLADDING: COMPARISON OF MASONRY AND OTHER MATERIALS

Wednesday, March 28, 2018

Speaker: J. Patrick Rand
North Carolina State University

In this presentation, results from a study of cladding material choices on a large university campus will be reviewed. More than 100 buildings, with various exterior materials, were analyzed to determine anticipated service life, maintenance requirements, and the associated embodied energy and carbon dioxide (CO₂) 'cost' for each cladding type. Comparisons were then made, including the prorating of each cladding type's environmental 'cost' over its anticipated service life.

Sponsor: Goedecke Co., Inc.
www.goedeckeonline.com

MODEL DRIVEN DESIGN AND CONSTRUCTION FOR MASONRY

Wednesday, April 25, 2018

Speaker: Tom Cuneio
CAD BLOX

From early conceptual stages to detailed field coordination, models are improving traditional work flows. This program presents current 3D modeling being used to produce better masonry designs and improve construction efficiency. Discussion includes case studies of unit based masonry models with rebar, latest point cloud models, and clash detection. A new Revit plugin that supports custom bond patterns, accurate modular layout, and automatic section generation will also be demonstrated.

Sponsor: Illinois Products Corporation
www.illinoisproducts.com

THOMAS F. WALSH MEMORIAL LECTURE – HISTORIC MASTERPIECES: CHURCHES, CASTLES, COLOSSEUMS

Wednesday, May 23, 2018

Speaker: David T. Biggs
Biggs Consulting Engineering

Many countries have outstanding masonry structures that have existed long before there was a United States. With that heritage comes a duty to conserve and restore these structures. Following up on last year's program on *Conserving Sites from the Empire of Alexander the Great*, join David Biggs for first-hand accounts of the masonry conservation challenges encountered while protecting various sites throughout Europe, Egypt and Turkey.

Sponsor: Spencer Brickwork
www.spencerbrickwork.com

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Lunch is provided. Vegetarian meals are available upon prior request.

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2017 2018 ENGINEERING SEMINARS

DEVELOPMENT OF STRUCTURAL MASONRY STANDARDS IN THE U.S.

TUESDAY, September 26, 2017

Speaker: Phillip J. Samblanet
The Masonry Society (TMS)

Coinciding with TMS's 40th anniversary, Phillip Samblanet, TMS Executive Director, joins us to look back at the development of structural standards in the United States, from TMS 401, to ACI 530, to the MSJC, to now the TMS 402. He'll also provide guidance on the major changes in recent years and how those changes can help you design masonry effectively and more competitively.

Sponsor: Lemay Concrete Block
www.lemayblock.com

CONCRETE MASONRY STORM SHELTERS

TUESDAY, October 24, 2017

Speaker: David A. Gillick
Masonry Structural Coalition

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. This presentation discusses reinforced concrete masonry storm shelter design including storm shelter loading, potential wall widths and heights, expected reinforcement and anchorage levels, and tips for collaborating with mason contractors during design development through the use of 3D modeling and preliminary budgeting.

Sponsor: Midwest Block & Brick
www.midwestblock.com

STRUCTURAL MASONRY DETAILING: TMS 602 SPECIFICATION TOLERANCES

Wednesday, November 15, 2017

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

Variations always exist between specified dimensions, and locations, and their as-built counterparts. *TMS 602, Specification for Masonry Structures*, gives tolerances for these variations intended to maintain life safety and assure structural performance. Join Darrell McMillian as he discusses TMS 602 tolerances including: receiving foundations, unit and mortar assemblies, steel reinforcement placement, and relationship of tolerances to the project quality assurance plan.

Sponsor: Caliber Cast Stone
www.calibercaststone.com

3D VISUALIZATION TOOLS FOR DOCUMENTING MASONRY

TUESDAY, January 16, 2018

Speaker: Michael Schuller
Atkinson-Noland & Associates

Photogrammetry and laser scanning can capture surface conditions of existing construction in great detail and current computing power is leading to their mainstream usage. Resulting surface models are used for documenting and visualizing conditions, modeling software input, and to provide models for stone fabricators tasked with carving replacement pieces. This presentation provides an overview of photogrammetry and laser scanning illustrated by project examples, along with data capturing recommendations for developing accurate models.

Sponsor: Earthworks
www.earthworkstone.com

STRUCTURAL MASONRY DETAILING: CONCENTRATED LOADS AND LINTEL OPTIONS

Wednesday, February 21, 2018

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

The structural masonry detailing series continues as Darrell McMillian discusses the application of concentrated loads to concrete masonry walls from other support systems such as steel girders. Next, Darrell looks at lintel options for supporting concrete masonry over door and/or window openings. Example detailing related to pertinent TMS 402/602 Code and Specification provisions will be offered for both topics.

Sponsor: Continental Cast Stone
www.continentalcaststone.com

DIRECT DESIGN OF MASONRY WITH SOFTWARE

Wednesday, March 21, 2018

Speaker: Russ Peterson
Ensoltech

In recent years masonry design has been simplified with the introduction of the Direct Design standard (TMS 403), and further by the development of companion software to implement that standard. This session explores the next generation of these initiatives highlighting enhancements made to further improve masonry design and downstream construction information. The ability of the TMS 403 related software to quickly design a fully code-compliant masonry building will also be demonstrated.

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

STRUCTURAL LIGHTWEIGHT GROUT MIXTURE DESIGN

Wednesday, April 18, 2018

Speaker: Fernando S. Fonseca
Brigham Young University

Recent BYU research focused on the design of lightweight grout mixtures that achieve a minimum 28-day compressive strength of 2000 psi, as currently required by ASTM C476 for normal-weight grout. Join Fernando Fonseca as he presents research results related to the effects of aggregate proportion, slump, and aggregate soaking on compressive strength. The need for additional research and possible future lightweight grout standardization will also be discussed.

Sponsor: Spec Mix
www.specmix.com

STRUCTURAL DESIGN OF PRE-INSULATED CONCRETE MASONRY

TUESDAY, May 22, 2018

Speaker: David T. Biggs
Biggs Consulting Engineering

While many architects select pre-insulated concrete masonry units (CMU) for their thermal characteristics, the structural design of these systems can present challenges whenever the vertical reinforcement is not symmetrical in the wall. This presentation will identify some of the pre-insulated systems currently available and address the structural design characteristics of each. The design emphasis will be on singlewythe pre-insulated CMU walls, beams and lintels.

Sponsor: Midwest Block & Brick
www.midwestblock.com

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2017 2018 CODE OFFICIALS

CONCRETE MASONRY STORM SHELTERS

TUESDAY, October 24, 2017

Speaker: David A. Gillick

Masonry Structural Coalition

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

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Sponsor: **Earthworks**
www.earthworksstone.com

RESIDENTIAL CONCRETE MASONRY FOUNDATIONS

Wednesday, April 11, 2018

Speaker: Darrell W. McMillian

Masonry Institute of St. Louis

Concrete masonry is well suited for basement and foundation wall construction due to its inherent durability, compressive strength, and modular flexibility. Darrell McMillian explores these and other advantages and then focuses on the related 2015 International Residential Code (IRC) detailing and construction requirements. Discussion to include foundation materials, minimum footing and wall dimensions, wall reinforcement schedules, foundation drainage, and moisture resistance.

Sponsor: **Raineri Building Materials, Inc.**
www.raineri-materials.com



All code officials 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.