

The Construction Specifications Institute

CSI Knoxville Chapter Meetil Tuesday, September 10th, 20 KNOXVILLE

Understanding Structural <u>Masonry 2019</u>

Presented By: James Cain, Executive Director Southeast Concrete Masonry Association 704 352 6831 jcain@scmaonline.org www.scmaonline.org

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ALHOUN'S ON THE TENNESS

400 Neyland Drive Knoxville, TN 37902 (865) 673-3355

Our Chapter meetings are generally on the 2nd Tuesday of each month and are at Calhoun's on the River in one of the upstairs meeting rooms.



Lunch Seminar 11:30 am 12:00 pm

CSI Members

First-Time Guest

\$20 Returning Guest/ **Non-Members**

Please RSVP to csiknox@gmail.com by 3:00 pm on Monday, September 9th, 2019

ORGANIZED SEPTEMBER 1958 CHARTERED MAY

THE KNOXVILLE CHAPTER MEETS ON THE SECOND TUESDAY OF EVERY MONTH. GUESTS ARE WELCOME!





CSI KNOXVILLE IS A MEMBER OF THE CSI GULF STATES REGION

THESPECK Editor

Stacy Flick Colbaugh - Editor scolbaugh@lewisgroup.net

THESPECK is published monthly by the Knoxville Chapter of the Construction Specifications Institute. Readers are encouraged to submit articles and images of the construction industry interest for our membership. All submittals should be sent via e-mail in a typical file format, such as pdf, .docx, or .jpg Please verify the accuracy of the information such as correct dates, spelling, and grammar. Deadlines are the 25th of each month.



KNOXVILLE CHAPTER: SEPTEMBER 2019

- 50 Professional
 - 5 EMERGING PROFESSIONAL
 - **5** STUDENT
 - 2 EMERITUS
- 2 Retired

64 TOTAL



CALENDAR OF EVENTS

SEPTEMBER 2019

- O3 <u>CSI Board Meeting</u> Tuesday, September 3rd, Lunch 12:00 pm - 1:00 pm at Lewis Group Architects 6512 Deane Hill Drive, Knoxville, TN 37919. Contact: scolbaugh@lewisgroup.net
- CSI Chapter Meeting Tuesday, September 10th,
 Lunch 11:30 am 1:00 pm at Calhoun's on
 "Understanding Structural Masonry 2019"
 Presented by James Cain, Executive Director,
 Southeast Concrete Masonry Association.
 CEU Overview: 1LU HSW
 RSVP at csiknox@gmail.com

26 <u>CSI Lunch & Learn</u> - Thursday, September 26th, 11:45 am at East Tennessee Community Design Center WATE 6 Carriage House "Brick 101" Presented By Michael Tyson from Whitacre Greer ntyson@wgpaver.com RSVP at csiknox@amail.com

OCTOBER 2019

- O1 <u>CSI Board Meeting</u> Tuesday, October 1st, Lunch meeting from 12:00 pm - 1:00 pm Location: Lewis Group Architects 6512 Deane Hill Drive, Knoxville, TN 37919
- 28th Annual AIA East Tennessee Golf Tournament
 Thursday, October 3rd, Shotgun Start 1:00 pm
 at Egwani Farms Golf Course in Rockford, TN
 Team Registration
- 09-11 CONSTRUCT 2019 AEC EDUCATION & EXPO
 October, 9-11, 2019 National Harbor, MD
 Gaylord National Resort & Convention Center.
 CONSTRUCT 2019 REGISTRATION
- OSI Chapter Meeting Tuesday, October 8th,
 11:30 am at Calhoun's on the River "Auditorium
 Seating" Presented By Les Lundburg from Irwin
 Seating Company Steve Ward Associates
 les.lundberg@irwinseating.com or Lizz@swainc.com
 RSVP at csiknox@gmail.com
- 25 XVI Annual CSI Golf Tournament
 Friday, October 25th, Lunch at 11:30 am
 Tee Time at 1:00 pm
 at Egwani Farms Golf Course in Rockford, TN
 Entry Deadline: 10/21/2019
 Contact: Wes Crow, CSI, Phone: (865) 770-0727
 RSVP at wcrow@johnsongalyon.com





THE PRESIDENT'S MESSAGE

Presidential Report - September 2019

Mr. Geoffrey Cavalier, CSI, Assoc. AIA, NCARB CSI Knoxville Chapter President cavaliergeoffrey@gmail.com





School is back in session for both K-12 and for college. CSI Knoxville is looking into ways that we can help educate students about and introduce students into the construction industry. Whether they have decided on their path of becoming a contractor, designer, or engineer, or if they are still looking into what they want for a career, we are interested in helping those that are interested in learning about what it takes for something to get designed and built, and the countless ways they can contribute

The UTK CSI student chapter has expressed interest in learning about more than just design. They want to meet CSI members and learn more technical aspects of construction than they are currently being exposed to in school. If you are interested in guest speaking, mentorship, or helping students get on a job site, please contact our Academic Affairs chair: Brian Sickles, brian. sickles@ssainc.com.

We also are looking into assisting with the ACE Mentor Program. ACE stands for Architecture, Construction, and Engineering. It is a program for high school students to inspire them to pursue careers in design and construction. I personally believe that for young adults career options should be presented to them in more complex ways than college or McDonald's. I believe ACE closely matches CSI's values when it comes to furthering the quality of the construction industry, they just start with younger

people than we do. If this is something you are interested in assisting with, please contact Gary Bergeron, Gary@ kelso-regen.com.

Last month's meeting at Calhoun's was very interesting and educational. John Lindahl with ORNL spoke with us about additive manufacturing (3D printing) and how it is impacting the construction industry. I think many people either think that the near future we will forgo all old construction practices and be printing 99% of all of our buildings, or they think that 3D printing is a neat trick, but like any fad will prove not worth it. What I got from his presentation is that additive manufacturing will slowly start integrating into our industry. Various manufacturers and contractors will start to use it not for their entire projects, but pieces of it. It is already being used for concrete molds for building facades, for specific pieces of structure, and even concrete walls. This new technology will speed up construction time, make construction safer, and allow us to design and build things we have never been able to do before. I believe you will start to see it appearing here-and-there this coming decade in ways none of us expected.

I hope you can join me at the next monthly meeting will be at Calhoun's on the river, Tuesday, September 10th from 11am to 1am. Our guest speaker is James Cain, the Executive Director for Southeast Concrete Masonry Association. He is going to be educating us on structural masonry, specifically the codes, benefits of its thermal mass, its resuliency, and how it is cost effective. This will provide 1 HSW. There is always great food and fun making new friends and catching up with old ones. I hope to see you there!

Mr. Geoffrey Cavalier, CSI, Assoc. AIA, NCARB CSI Knoxville Chapter President cavaliergeoffrey@gmail.com







EDUCATION: October 9-11, 2019 | EXHIBITS: October 10-11, 2019 National Harbor, MD, USA | Gaylord National Resort & Convention Center

CONSTRUCT 2019 REGISTRATION

Presentation Summary

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Understanding Structural Masonry



AIA provider #G030

AIA course #LBM-2019





Structural Masonry

- AIA Continuing Education Program
- Credits:
 - •1 LU/HSW Hour (Health, Safety, Welfare)





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Learning Objectives

- Know the code used for the design of structural concrete masonry and some of the recent changes
- Recognize concrete masonry construction as cost-effective and some ways to streamline construction
- Understand the benefits of thermal mass provided by concrete masonry
- List the ways concrete masonry provides resilience

BIOGRAPHY

JAMES CAIN

Executive Director of the Southeast Concrete Masonry Association (SCMA)



James Cain is the Executive Director of the Southeast Concrete Masonry Association (SCMA) which encompasses five states

including North Carolina, South Carolina, Georgia, Virginia & Tennessee. James brings more than 22 years of experience in

sales and market promotion to his new role. He oversees all promotional activities of the association including driving masonry wall share,

workforce development, and educational resources, while advocating for the use of concrete masonry units for all stakeholders

within the SCMA footprint.

James Cain
Executive Director
Southeast Concrete Masonry Association
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CSI TECHNICAL

WHAT I LEARNED FROM CSI...

EARLY SUPPRESSION FAST RESPONSE (ESFR) FIRE SPRINKLER SYSTEMS

MR GARY T. BERGERON, CSI Kelso-Regen Associates, Inc. CSI Knoxville Technical Chair gary@kelso-regen.com



We all enjoy an occasional salty snack such as potato chips, pretzels, or corn chips. But how many of us think about the warehouses where this type of product is stored?

These snack type warehouses are often equipped with high storage racks that exceed 12 ft in height. According to the National Fire Protection Association (NFPA), this is considered high piled storage and commodity level XXX because of the high oil content and the cardboard carton storage system. These storage racks can be equipped with in-rack sprinklers, similar to what you see at Home Depot or Lowes, but this limits the reconfiguration of the storage system.

An alternative to in-rack sprinklers is a system called Early Suppression Fast Response (ESFR) fire sprinklers. This system can be installed at the roof level. ESFR sprinklers allow reconfiguration of the rack storage at the owner's discretion; however, this flexibility comes with some caveats. The storage racks cannot utilize solid shelving. ESFR sprinklers are designed to release 2-3



Standard sprinkler on left, ESFR on right

times the amount of water of a conventional sprinkler head and to discharge larger droplets of water. The high volume of water needed requires a larger amount of water flow and pressure than standard fire sprinkler systems. Depending upon the size of the fire line service to the property, this high-water flow may require a fire pump; 10,000 gallon or larger storage tank; and other associated equipment. The ESFR fire sprinkler locations should be coordinated with the structural steel framing members to avoid blocking the fire sprinkler spray. In general, ESFR systems can be used in warehouses with storage not exceeding 40 feet in height and a ceiling height less than 45 feet. Usually designed specifically for a particular storage commodity level; an ESFR system cannot be changed to the protection of other products like tire storage without an in-depth analysis of the commodity and rack construction.



Fire pump

https://hgi-fire.com/blog/annual-fire-pump-testing-a-few-important-tips



ESFR sprinkler system NFPA test https://www.youtube.com/watch?v=W5FtfG1K14Y

CSIknoxville september 2019



Fire pump building and 10,000-gallon water storage tank

ESFR systems can solve many problems in warehouse fire protection, but ensuring that the correct type of ESFR is used involves a full understanding of the commodity and storage rack configuration in the warehouse. The long-term use and range of flexibility expected by the building owner should also be considered. The fire department, the Local Authority Having Jurisdiction (LAHJ), and the owner should communicate to ensure the terminologies used by each party are understood. This effort will ensure ESFR systems are designed correctly.

Gary T. Bergeron, Principal and Co-Owner Kelso-Regen Associates, Inc. CSI GSR Technical Committee Chair C: 865-748-6304







HINDSIGHT

PHOTOS FROM AUGUST CHAPTER MEETING

Photos by Ms. Stacy Flick Colbaugh, AIA, CSI, CDT scolbaugh@lewisgroup.net





CSI HIGHLIGHTS

Summary from August Board Meeting Minutes By Mrs. Katherine Proctor, RA, FCSI, CDT

The board met on Tuesday, September 2nd at noon at the offices of Lewis Group Architects. The 2019-2020 budget was adopted.

The CSI student group is organizing and is seeking speakers, site and office visits.

We were pleased to learn that the chapter won the Institute Outstanding Chapter Commendation and The Chapter Cup, a Region award for greatest increase in membership!

Planning for the October 25th Golf Tournament at Egwani Farms is underway and we are seeking more sponsors! See www.csiknoxville.org to register.







XVI Annual CSI Golf Tournament

Wear your finest fancy pants, shorts, or skirt and hit the "Dance Floor" with us.
Learn new swing techniques, win some cash prizes, eat, drink, and do some 'Bogey"!

At CSI Knoxville Chapter, we are committed to promoting education in construction related fields. Proceeds from this event benefit the University of Tennessee, College of Architecture and Design, the CSI Scholarship and other local construction and design educational programs.

Date: October 25, 2019 Egwani Farms Golf Course
Time: 1:00 PM Tee Time 3920 S Singleton Station Rd
Lunch: Served at 11:30 AM Rockford, TN 37853

Contact
Wes Crow, CSI
wcrow@johnsongalyon.com

Phone: (865) 770-0727

Individual \$120.00 4 man Team \$450.00

Cost

Please make check or money order payable to CSI: Mail payment & entry form back to: CSI Golf Tournament c/o Wes Crow Johnson & Galyon Construction 1130 Atlantic Avenue, Knoxville, TN 37917

 ENTRY FORM: (Entry Deadline: 10/21/2019)

 Team/Company Name:
 Address:

 Address:
 State:

 City:
 E-mail:

 Phone Number:
 E-mail:

 Team Captains:
 #Teams:

EVENT SPONSOR FORM: (Entry Deadline: 10/21/2019)

TOTAL =

_x \$120 =

Players:_

Players._

Cart Sponsor: \$400.00 Sign at the registration table and on

drink cart

☐ Long Drive Sponsor: \$200.00 Sign at the tee box

nd on Sign at th

Closest to the Hole Sponsor: \$200.00

Tee/Hole Sponsor: \$150.00

Sign at a tee box

Company Name:

Address:

City:

State:_____

Zib:

NEW MEMBER SPOTLIGHT

KATHRYN FULLER, CSI, CDT, AIA, NCARB



We are happy to welcome Kathryn Fuller. She is a graduate of Washington State University and practiced architecture in Spokane. Having family in Knoxville, she came to interview with a number of firms and landed at Michael Brady, Inc. At MBI she fills the role of architect/ project manager and quickly became involved in lots of projects including commercial retail, apartment restorations, industrial/ manufacturing, warehouse and roofing. She is also focused on updating the office master specifications.

When Kathryn was asked how CSI has been an asset to her, she replied, "Just being involved in the chapter made the principals of my former firm take notice. When the sole spec writer in our office indicated he was retiring, the firm asked me to fill his shoes. I then took classes, provided by my local chapter, and passed the CDT on the first try. My former employer was very impressed with my initiative and this credential, boosting my pay. I then proceeded to move from chapter communications chair, up through the ranks to chapter president (2016-2017)."

"CSI leadership classes helped focus my path of involvement and inspired me to remain an integral participant in the organization. I believe I was hired at MBI Companies partly because of the CDT credential and involvement in CSI. The people I have met at conferences, and through local chapter events, are always willing to help a fellow CSI member. I continue to be a go-to person for co-workers seeking advice on specifications and product information."

So how is Kathryn fitting into her new chapter? She stepped up and assumed the role of chapter secretary as Susan Davis retired.

"The Knoxville Chapter is unlike any I have encountered. The people are so helpful and kind - yet professional. When I flew here for interviews, members of the board took time out of their day to meet my mother and I at the airport - with balloons and a goodie bag. Before we left, we were treated to dinner by CSI people at Calhoun's on the River. A month later, when I moved here, members of the board magically appeared again to help unload the moving truck" said Kathryn.

"The CSI Knoxville Chapter is one of the few growing chapters in the U.S. and I believe it is because they work well together as professionals who are working for the common good of the organization. They also like each other's company, and welcome anyone to the table; making people feel like their time is well spent. These things help make this chapter such a success! I am glad to have stumbled across this chapter in this beautiful, scruffy, city of Knoxville, TN - and can't believe I am really here!"

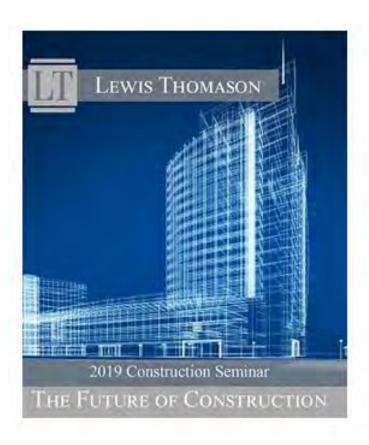
The Knoxville Chapter is very happy that you chose to join our family!

Kathryn E. Fuller | AIA, NCARB, CSI CDT Project Manager mbi companies inc. (o)865.584.0999 www.mbicompanies.com









THE FUTURE OF CONSTRUCTION

Half-Day Seminar

Thursday, September 12th 8:30 AM - 1:00 PM

FOX DEN COUNTRY CLUB

12284 North Fox Den Drive Knoxville, Tennessee

Registration deadline extended to Monday, September 9th.

FOR QUESTIONS CONTACT: Marti Merrell | Lewis Thomason (865) 541-5279 mmerrell@lewisthomason.com

CSI GULF STATES REGION LEADERS – 2019-2020

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