

The Construction Specifications Institute

CSI KNOXVILLE CHAPTER MEETING JUESDAY, NOVEMBER 13th, 20

MOISTURE MANAGEMENT IN COMMERCIAL BUILDING ENCLOSURE

Presented By: Darson Buckner, DuPont Tyvek Senior Certified Weatherization Specialist & Suzan Jordan, CSI, CDT, DuPont Tyvek Weatherization Specialist from DuPont Building Innovations Credit: 1 LU HOUR (AIA/HSW, GBCI/LEED CMP)

Did you know:

- \$9-10 Billion Dollars are spent each year to correct construction defects
- 80% of these defects are moisture related



Join us on November 13, 2018 and let's find a solution to this problem! Darson Buckner will be the presenter. You don't want to miss this program!



alhoun's on The Tennesse

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

\$0 First-Time Guest

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

Please RSVP to csiknox@gmail.com by 3:00 pm on Monday, November 12th, 2018

ORGANIZED SEPTEMBER 1958 CHARTERED MAY 1959

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: NOVEMBER 2018

- 43 Professional
 - 1 STUDENT
 - 4 EMERGING PROFESSIONAL
 - 2 EMERITUS
- 2 Retired
- **52 TOTAL**



CALENDAR OF EVENTS

NOVEMBER 2018

- **CSI Board Meeting** Tuesday, November 6th, 5:30 pm at Odle & Young's Office
- 13 CSI Chapter Meeting Tuesday, November 13th,
 11:30 am at Calhoun's on the River "Moisture
 Management in Commercial Building Enclosure"
 Presented By Darson Buckner & Suzan Jordan
 from DuPont Building Innovations1LU/HSW
 RSVP at csiknox@gmail.com

DECEMBER 2018

- O4 <u>CSI Board Meeting</u> Tuesday, December 4th, 11:30 am at TBD
- 11 CSI Chapter CHRISTMAS PARTY Tuesday,
 December 11th, 5:30 pm at The Shatara
 Residence. A special appearance from Santa
 Claus! Please bring a toy to donate to Toys for
 Tots! Dirty Santa Gift Exchange!

JANUARY 2019

- OSI Chapter CSI Field Trip Tuesday, January 8th, 11:30 am -1:00 pm at Blount Mansion 200 W Hill Ave Knoxville, Tennessee 37902 "Blount Mansion Tour" Presented By David Hearnes. Join CSI Knoxville for a Field Trip to Blount Mansion, the "house with many eyes"! Built in 1792, by William Blount, the Governor of the Territory of the United States South of the River Ohio. RSVP at csiknox@gmail.com
- 10 <u>CSI Board Meeting</u> Thursday, January 10th, 5:30 pm at Odle & Young's Office
- 24 <u>CSI Lunch & Learn</u> Thursday, January 24th, 11:45 am at East Tennessee Community Design Center WATE 6 Carriage House "Monolithic Acoustical Ceiling Systems" Presented By Dawn Spears, CSI, CCPR, LEED® AP BD+C, EDAC, WELL AP™ from USG (1 LU HSW)



THE PRESIDENT'S MESSAGE

WHERE DID THE YEAR GO?

MR. R. AARON MILLER, CSI, CDT, AIA Design Innovation Architects CSI Knoxville Chapter President AMiller@dia-arch.com



Well, it's hard to believe that

November is already here. Where did the year go?

Time flies when you're having fun.....or is it when
you're too busy and have too much to do. Speaking of,
CSI Knoxville has added a new monthly social event
this year for anyone and everyone to attend. It's called
Decompression Hour. So, if you are looking for a fun
social event after work or you are too busy and just need
to call a timeout and decompress, this event is just for

you. Be looking for the announcements each month for

the date and time and spread the word.

On the fun note, we just had our annual Golf Tournament which had an excellent turnout. We want to thank all those who played, sponsored, and worked behind the scenes to make this a huge success, particularly Wes Crow who always does an excellent job leading this event. Thank you all!

We just held our Student Interest Meeting at the UT Art & Architecture Building to meet with those interested in becoming CSI Student members and share the benefits of being a member. We will be continuing to engage with and look for ways to build up the CSI Student Chapter. As potential Student members visit our meetings, make them feel welcome, share the benefits of CSI, and if the opportunity presents itself, feel free to sponsor their membership fees. These are the CSI leaders of tomorrow.

Coming up next month will be our annual CSI Christmas Party. This year, we have decided to incorporate the 2017-2018 CSI Awards ceremony into this special event. It will be on the evening of Tuesday, December 11th, and will be filled with fun, food, music, awards, and socializing. Did I mention fun? So, mark your calendars and plan to participate in this fun and celebratory event where we relax, enjoy the time together, and award those that served CSI well last year. Be on the lookout for additional information and details later this month.

We are in full swing planning the annual 2019 ETN Building Products Show. The date is set for Tuesday, March 12th from 4pm to 8pm, so make sure everyone marks their calendars. This year we have decided to

change the location to the Foundry at World's Fair Park which will have better access and parking arrangements. We have the entire facility reserved for this exciting and informative event and looking to pack the house full with vendors, products, organizations, companies, etc., and yes, food and drink. Vendor packets are being pulled together and should be sent out very soon. We look forward to seeing everyone on March 12th.

Finally, as we continue to look to increase membership and participation this year, make plans to attend our regular and special events and invite visitors. If you haven't attended in a while, come out and plug back in. We would love to have you. Our next Chapter Meeting is Tuesday, November 13th at Calhoun's on the River. Come out and enjoy the food, socializing, networking, and presentation. See you then!

Mr. R. Aaron Miller, CSI, CDT, AIA Design Innovation Architects CSI Knoxville Chapter President AMiller@dia-arch.com



CSI HIGHLIGHTS

Summary from October Board Meeting By Ms. Susan Davis, RA, CSI, CDT, PMP CSI Knoxville Chapter Secretary

Please invite guests to the membership meetings! The board is considering incentives for visitors. Also, as a member, remember we miss you when you don't participate. If you can't make membership meetings, consider some of our other events. You chapter needs you!

Do you know of a program that would be interesting to engineers as well as others? Let us know!

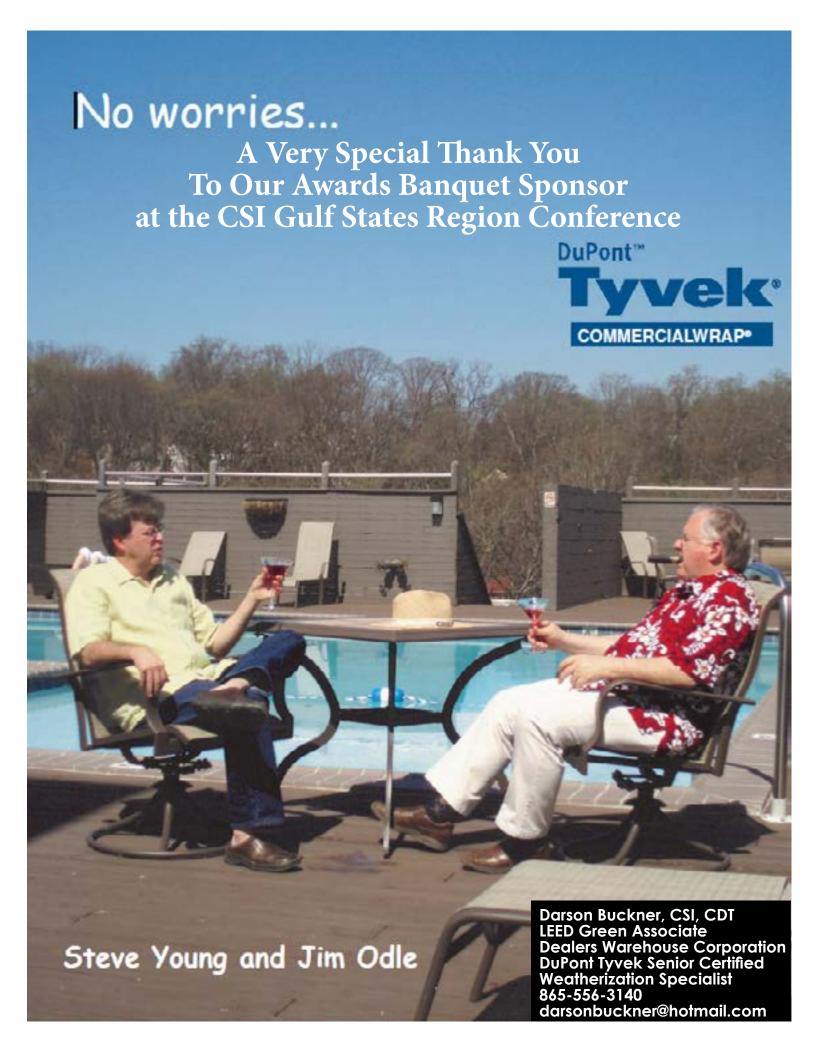
Our membership is increasing, thanks to you! Remember to renew and invite your colleagues to join.

Our student chapter is active and has new members. Gary Bergeron catered the last student meeting with homemade gumbo and key lime pie. Yum! Consider coming to speak to the students.

Don't forget the trade show is coming up. Invite vendors to make this the best show yet.

The marketing committee is working hard on some great ideas to make our chapter better. Please provide them your input.

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The American Institute of Architects Continuing Education System

AIA/CES Registered Provider Program Summary Handout







Provider: DuPont Building Innovations

Program #: Moisture 1

Program: Moisture Management in Commercial

Building Enclosure

Length: 1 hour

Credits: 1 LU Hour AIA/HSW: Yes

GBCI/LEED CMP: Yes

Description: Moisture is the most significant factor in the premature deterioration of buildings. Moisture can damage materials directly, but it can also reduce the effectiveness of building materials. Excess moisture is also the major factor in the growth of mold. This seminar, organized in 3 sections, will help you understand the impact of moisture transport across the building enclosure and the importance of controlling moisture flow using water, air and vapor barriers.

- Section 1 gives a summary of the impact and potential liabilities of moisture intrusion
- Section 2 describes the main moisture sources, transport mechanisms and control strategies (The 3 Moisture Barriers)
- Section 3 describes the differences between air and vapor barrier functions.
 Moisture transport by air currents and by vapor diffusion has different driving forces and occurs through different mechanisms; however the 2 control functions are often confused in the industry.

Learning Objectives: After attending this seminar, you will be able to understand

- 1. The impact and potential liabilities of moisture intrusion
- 2. The main moisture sources and the moisture transport mechanisms
- 3. The 3 Barriers for protecting against bulk water and moisture vapor migration
- 4. The difference between Water, Air and Vapor Barriers

Target Audience: Architects, Design Professionals, Specifiers, Owners, Contractors, Code Officials, Building Envelope Consultants, and Students. This program meets every experience level with time designed into the program for questions and answers.













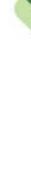












CONSTRUCTION DOCUMENTS TECHNOLOGIST



Certified Green Professional by the National Association of Home Builders. Darson was also awarded the building codes organizations as an approved educational speaker in the area of Moisture Management masonry inspector with the Masonry Institute of Tennessee and Brick Institute Association. Darson has Fennessee; DIY; Charter Cable Home Improvement Series; HGTV; ZEBRAlliance. He has a Bachelor of Darson Buckner is a Moisture Management Consultant and has been involved with field studies and worked with the Oak Ridge National Laboratories, Buildings Technology Department; University of builders, and other building professionals in the U.S. Darson is certified with architect, builder, and Science degree in Green Building and has given hundreds of seminars to architects, code officials, Construction Documents Technologist from the Construction Specification Institute and a Master research of window installations and building envelope design for over 20 years. He is a certified and Building Envelope Design. He is certified as a Home Energy Auditor, LEED Green Associate, 2017 "Associate of the Year" by the Tennessee Building Officials Association.



Green Professional Master Certified

NOVEMBER2018

November 15

CEU: Quarry and Fabrication Tours:

11 am—Noon or 1 —2 pm 343 W. Vinegar Valley Rd. Friendsville, TN 37737



MARBLE 2018

13 Years

November 15

Catered Lunch:

Noon—1 pm RSVP by November 5 to josh@tnmarble.com. Vegetarian or Meat?

Sustainable, durable, timeless, authentic, abundant: Tennessee Marble endures!

Lunch Provided by:







Join us as we celebrate our 25 Year Anniversary with lunch and CEU Credits! We want to thank the design community for shaping our local built environment, and give you a behind the scenes look at modern quarrying and fabricating of the iconic Tennessee Pink Marble.

RSVP for a tour at 11 am or 1 pm, and lunch at noon. We are only able to accommodate 50 people: RSVP here to reserve your spot.







Natural Stone: The Evolving Marketplace, Technology, & Product Applications (Facility Tour)

Learning objectives include:

- Learn about the history of stone, modern day quarrying techniques, and stone's durability, beauty, and value.
- Study and discuss landscape, interior and exterior use, and application of natural stone.
- Obtain information about integrating trims, caps, stoops, pool copings, water tables, veneers, etc. into your designs.
- Tour a stone facility and view stone, stone applications, safety practices, and/or the equipment used to fabricate stone.

Program Length: 60 minutes

AIA Course Number: MIATL, 1.0 HSW LU NKBA Course Number: MIA112R, 0.1 CEU

IDCEC (ASID, IDC, IDEC, and IIDA) Course Number: CEU-104614, Subject Code: 5.3, 0.1 General CEU

LACES (ASLA, CSLA, CELA, CLARB, LAAB, LAF) Course Number: ASLA4, 1.0 HSW LU

NKBA: MIA151R, 0.1 CEU









CSI EDUCATION

WHAT I LEARNED FROM CSI... WATER HAMMER

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

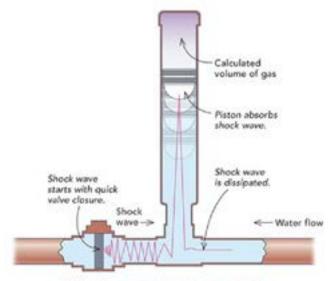


We all use the plumbing fixtures in our homes and offices several times each day. Several of us have experienced water pipe noises as we turn off the faucet that sounds like water pipes rattling in the wall cavity. Most plumbing engineers call this water pipe noise "water hammer", but how many of the general public know how to stop it?

Water hammer is caused by the fast closing action of a faucet, or the electric solenoid valve in an icemaker, dishwasher, or in the washing machine that controls the water flow to the appliance. This fast closing action causes the water to stop suddenly and sometimes reverse direction in the pipe. This water pressure wave traveling back and forth in the water pipe can cause the water pipe to rattle if the pipe is not secured in place inside the wall cavity. This water hammer can also exceed the

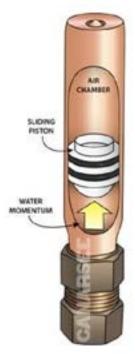


Washing machine water hammer arrestor



Water hammer arrestor explanation

water pipe and fittings pressure rating and cause water leaks. A plumbing device called a water hammer arrestor (shockstop) or an air chamber is often installed on the cold and hot water lines adjacent to the fast closing valve to prevent the water hammer and its associated noise. These devices function like a shock absorber on a car to dampen the pressure wave that causes the water hammer noise.



Water hammer arrestor section view

The barber shop that I patronize had a water hammer problem that was difficult to resolve. Since a backflow preventer and pressure reducing valve had recently been installed, the plumber recommended a water expansion

(WATER HAMMER.... Continued on Page 9)

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(WATER HAMMER.... Continued from Page 8)

tank be installed on the cold water line serving the water heater. This expansion tank did not solve the water hammer problem because it is designed to provide for thermal expansion from hot water and does not act as a water hammer arrestor. The clothes washing machine was also a water hammer suspect because of its fast closing solenoid valve. The plumber recommended a shock stop to be installed on the washing machine box that contained the hot and cold water shut off valves for the washer. After this was installed, the water hammer still did not stop. Since the barber shop only had three barbers, each barber took one day off per week. When one of the barbers took his day off, the other two barbers were annoyed by the dripping faucet at the day off barber's station. When the remaining barbers turned off the faucet at the fixture stop under the sink, all of the water hammer noise stopped. So this tells us that sometimes a leaky faucet can be the culprit.

So, if you hear a water hammer noise at home, install a washing machine box or icemaker water hammer arrestor available at your local big box retailer. The YouTube website has an installation video if the instructions with the device are not clear.

Mini-Rester AA Size Sioux Chief

Water hammer arrestor external view

Gary T. Bergeron, Principal and Co-Owner Kelso-Regen Associates, Inc. CSI Knoxville Chapter Past President CSI Knoxville House Committee Chair CSI GSR Technical Committee Chair O: 865-588-5348 C: 865-748-6304



CSI LUNCH & LEARN

Tuesday, November 13th, 11:30 am - 1:00 pm

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- 80% of these defects are moisture related



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Builders Exchange of Tennessee www.bxtn.org 866-941-BXTN

Knoxville Office 300 Clark Street Knoxville, TN 37921 865-525-0443 Nashville Office 301 S Perimeter Park Dr, Suite 100 Nashville, TN 37211 615-690-7200

CTEP: Promoting Careers in Construction to Tennessee Students

The Construction Trades Education Partnership (CTEP) is a new collaborative effort of BXTN, the University of Tennessee's Construction Science Program, and other partners. CTEP will promote career opportunities in the commercial construction industry, starting with a pilot program in select Knox County schools.

BXTN is seeking an Education & Recruitment Coordinator to help get CTEP started, and we need your help. A job advertisement is attached please forward to anyone that you think would be a good fit for this position. Interested parties should submit rACsumACs to trisk@bxtn.org.

Be on the lookout for future CTEP announcements, including new ways your company can participate in shaping the future of tomorrow's construction workforce.

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CSI NEWS

CSI GOLF TOURNAMENT PHOTOS FROM OCTOBER 29, 2018

PHOTOS BY MR. SAMER SHATARA, CSI, CDT CSI Knoxville Membership Committee sshatara@denark.com















CSIKNOXVILLE NOVEMBER 2018





















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CSI GULF STATES REGION LEADERS - 2018-2019

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Membership has its benefits

Your CSI member benefits include generous discounts on CSI standards and formats such as *MasterFormat 2016 Update*, as well as discounts on numerous resources to assist you in the preparation of specifications, as well as other construction documents.

Not a CSI Member? Join Today! Go to www.csiknoxville.org

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