

CSI KNOXVILLE CHAPTER MEETING TUESDAY, APRIL 14TH

HEAT, AIR, & MOISTURE MANAGEMENT IN COMMERCIAL BUILDING ENCLOSURES

Presented By: **Darson Buckner**, DuPont Building Innovations
LEED Green Associate, DuPont Tyvek Senior Certified, Weatherization Specialist
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1LU HOUR
AIA/CES
HSW
GBCI/LEED
CMP



CSI Knoxville Virtual Meeting! Apr 14, 2020 11:30 AM - 1:00 PM

During this time of quarantine, we would like to offer our members and non-members the opportunity to earn their much needed credits.

[Click here to Pre-Register for the Virtual Meeting:](#)

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**

THE SPECK Editor

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THE SPECK 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: APRIL 2020

51 PROFESSIONAL

1 EMERGING PROFESSIONAL

2 STUDENT

2 EMERITUS

2 RETIRED

58 TOTAL



CALENDAR OF EVENTS

APRIL 2020

- 07** **CSI Board Meeting** - Tuesday, April 7th
Meeting from 12:00 pm - 1:00 pm
New Location: ZOOM MEETING
<https://us02web.zoom.us/j/897211314>
- 14** **CSI Chapter Meeting** - Tuesday, April 14th
11:30 am "Heat, Air, & Moisture Management in Commercial Building Enclosures" Presented by Darson Buckner, DuPont Building Innovations

Topic: CSI Knoxville Virtual Meeting!
Time: Apr 14, 2020 11:30 AM Eastern Time

Join Zoom Meeting
<https://us02web.zoom.us/j/226854634?pwd=dUJUcFg3ckdpMGRXc1doVlV1dEQ09>

Meeting ID: 226 854 634
Password: 193916

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Find your local number: <https://us02web.zoom.us/j/kvIvTrDs1>

Click here to Pre-Register for the Virtual Meeting:



THE PRESIDENT'S MESSAGE

IT HAS BEEN A SURREAL EXPERIENCE

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



It has been a surreal experience for me every day for the past couple weeks while this pandemic is going on. Whenever a disaster is occurring things change faster than you can process. You don't know what tomorrow is going to look like. You don't have time to know what the best thing to do is. In times like these it is important that we all stay in contact. If you need help, reach out. If you are doing ok, reach out to others and check on them. My favorite thing about this local chapter is probably the care that its members give each other. In a difficult time where we cannot physically gather, it becomes essential to stay in contact with each other. I urge you to keep in contact with your fellow members and see how they are doing. Even more important than that, if something changes for the worse for you, your family, your job, I urge you to reach out. Our chapter is about helping each other out and that has always exceeded just construction and building information.

By communicating regularly through email, text, phone, and video we can stay up to date on what is happening in our industry and in our area. Information is priceless right now and because of the connections we all have made in this organization we are able to get more of it. We can learn about job opportunities, continuing education, closures, and where help is needed.

This month we will be having multiple events through video calls. Our usual monthly meeting will be a presentation on improving the air resistance of building components and wall systems by Darson Buckner from Dupont Tyvek. This will occur through Zoom and the meeting ID is 226 854 634. We also will be starting the call thirty minutes ahead of time so we all can talk and share how things have been going for us during the pandemic. We are also planning on having some general social video calls so we can stay in regular contact and we all can check in on each other. Expect to hear more about those.

I hope we can all do our part to end this soon. The impacts of our actions will have consequences past what we can expect. I hope you and your families will be safe.

*Mr. Geoffrey Cavalier, CSI, Assoc.
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Please look for Constant Contact email to submit your vote by 10:00 am on Tuesday, April 14th

Link to CSI Knoxville Chapter Write-In Vote for Vice President Officer Slot:

<http://events.constantcontact.com/register/event?llr=qmtbi86ab&oeidk=a07eh11xn6vd43bdf1a>

The American Institute of Architects Continuing Education System

AIA/CES Registered Provider Program Summary Handout



Provider: DuPont Building Innovations

Program #: HAM 101

Program: Heat, Air & Moisture Management
in Commercial Building Enclosures

Length: 1 hour

Credits: 1 LU Hour

HSW: Yes

GBCI/LEED CMP: Yes

Description:

This seminar is a basic review of heat, air and moisture transport mechanisms across the building enclosure and the design control strategies. The first section will discuss heat transport mechanisms and heat management. There are 3 main mechanisms of heat transport: conduction, convection and radiation. Heat flow by conduction (*through materials*) is discussed in the first section which includes a brief review of thermal insulation materials and energy code requirements for thermal insulation. Heat flow by convection (*through air currents*) is controlled with a *Continuous Air Barrier*. A summary review of the overall impact of air leakage on building enclosure performance and the importance of air leakage control is provided in the second section. Air leakage and Air Barriers are addressed in more details in other CES presentations by the same provider (Air Barrier-1 and Air Barrier-2). Heat flow by radiation (*through space*) is not discussed in this seminar and it is more important for fenestration than for the opaque envelope. The last section is a brief review of moisture sources in buildings, moisture transport mechanisms, and moisture control strategies. The building science principles behind the moisture management are briefly discussed. Moisture management principles are addressed in more details in other CES presentations by the same provider (Moisture 1 and Moisture 2).

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

1. Heat flow mechanisms and heat control strategies
2. Air transport mechanisms and air leakage control strategies
3. Moisture transport mechanisms and moisture control strategies
4. The importance of heat, air and moisture management in buildings

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 & answers.



CSI EDUCATION

GOVERNMENT VS. COMMERCIAL CONSTRUCTION CONTRACTS & SPECIFICATIONS: CROSS-POLLINATING BEST PRACTICES

By Ms. Susan Davis, RA, CSI, CDT, PMP
babydavis111603@aol.com

I can't tell the chapter how grateful I am for allowing me to go to CONSTRUCT 2019... It was phenomenal!

The learning sessions were lead by thoughtful people, the activities were fun and engaging, and the time spent with peers from across the country was so encouraging. It helps so much to see others that have walked a similar road and may have faced some of the challenges you are facing now. I feel extremely lucky to be a part of such a wonderful chapter!

Susan Davis

Government vs. Commercial Construction Contracts & Specifications: Cross-Pollinating Best Practices

This is a summary of a learning session lead by Joseph Scarpa, Department of Defense and Elias Saltz, Conspectus at CONSTRUCT 2019. These notes are my understanding of what was presented.

Commercial work is subject to varying regulations that we are all familiar with. Government regulations seem onerous and scary but how do the two actually compare?

Government regulations actually centralize many requirements into single sources that can help eliminate conflicts. There are several large regulations that address broad areas of the contracting world.

The Federal Acquisition Regulations (FAR) address the contracting methods with one subpart specifically dedicated to construction. The Unified Design Criteria compiles into one place what, in the commercial sector, may come from each institution or not at all. The Unified Specifications give common specs to work from. Guess what? You may recognize the format as it is based on CSI's own Uniformat!

The government also has some resources that can also

make things easier. Did you know that there is a free program that will aid in writing specs (Specs Intact). Also, the Small Business Administration (SBA) can help the contracting officer find and qualify contractors.

There is, however, a confusing stack of legislation dictating procurement for government contracts - green products requirements, Buy America Act, Berry Amendment, Trade Agreements, National Defense Authorization Act, etc. You also need to be aware that some agencies are not subject to the unified requirements (VA, GSA) and some agencies will have their own requirements above the standards (Navy).

The takeaway is, while there are some things the commercial sector definitely does better, government contracting has its own strong points. With the increase in public private partnerships (PPPs), I would expect to see some merging of these requirements.

Selected Referenced URLs

<https://acquisition.gov/>

<https://www.afcec.af.mil/Home/Facility-Engineering/>

<https://www.publications.usace.army.>

<https://www.gsa.gov/about-us/organization/public-buildings-service>

<https://www.gsa.gov/real-estate/design-construction/engineering-and-architecture/facilities-standards-p100-overview>

<https://www.sam.gov/SAM/>

<https://specsintact.ksc.nasa.gov/>

<https://www.cfm.va.gov/til/>

<https://www.wbdg.org/FFC/dod/unified-facilities-criteria-ufc>

www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs

Ms. Susan Davis, RA, CSI, CDT, PMP
CSI Knoxville Chair: Bylaws and Operating Guide



HINDSIGHT

PHOTOS FROM 2020 CSI PRODUCT SHOW

Photos By Ms. Stacy Colbaugh, CSI, CDT, AIA



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