

# CSI THE SPECK

Knoxville Chapter

The Construction Specifications Institute

## CSI KNOXVILLE CHAPTER MEETING TUESDAY, NOVEMBER 12TH

# DUCTSOX-AIR DISTRIBUTION DESIGN AND APPLICATIONS

Presented By: **Duke Bennett, Hoffman & Hoffman** (865) 450-9770 [duke.bennett@hoffman-hoffman.com](mailto:duke.bennett@hoffman-hoffman.com)  
**John Lipscomb, DuctSox Corporation** (864) 356-9025 [jlipscomb@ductsox.com](mailto:jlipscomb@ductsox.com)

**1LU  
AIA**



## CALHOUN'S ON THE TENNESSEE RIVER

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

Our Chapter meetings are generally on the 2<sup>nd</sup> 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

\$0 CSI Members  
\$0 First-Time Guest  
\$20 Returning Guest/  
Non-Members

Please RSVP to [csiknox@gmail.com](mailto:csiknox@gmail.com) by 3:00 pm on Monday, November 11th, 2019

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

Stacy Flick Colbaugh - Editor  
[scolbaugh@lewisgroup.net](mailto:scolbaugh@lewisgroup.net)

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.

## CALENDAR OF EVENTS

### NOVEMBER 2019

- 05** **CSI Board Meeting** - Tuesday, November 5th  
Lunch meeting from 12:00 pm - 1:00 pm  
**Location: Lewis Group Architects**  
6512 Deane Hill Drive, Knoxville, TN 37919
- 12** **CSI Chapter Meeting** - Tuesday, November 12th  
11:30 am at Calhoun's on the River "DuctSox"  
Presented Duke Bennett and John Lipscomb with DuctSox 1LU/HSW RSVP at [csiknox@gmail.com](mailto:csiknox@gmail.com)

### DECEMBER 2019

- 03** **CSI Board Meeting** - Tuesday, December 3rd,  
Lunch meeting from 12:00 pm - 1:00 pm  
**Location: Lewis Group Architects**  
6512 Deane Hill Drive, Knoxville, TN 37919
- 03** **CSI Chapter Christmas Party + Candle Light Tour**  
Tuesday, December 3rd, 5:30 pm at Historic Ramsey House 2614 Thorngrove Pike Knoxville, TN 37914
- 10** **Wakefield Christmas Party** - Tuesday, December 10th, 5:30 pm at Wakefield Corporation Office 10646 Dutchtown Rd, Knoxville, TN 37932



### KNOXVILLE CHAPTER: NOVEMBER 2019

**51 PROFESSIONAL**

**5 EMERGING PROFESSIONAL**

**5 STUDENT**

**2 EMERITUS**

**2 RETIRED**

**65 TOTAL**



*60th Anniversary* 1959 2019

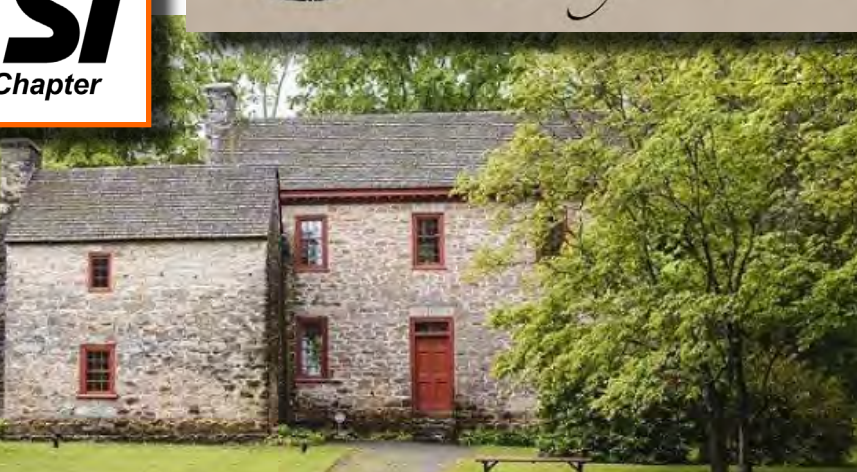


*Historic Ramsey House*

*CSI Chapter Christmas Party  
and Candle Light Tour*

*Tuesday, December 3rd, 2019*

*5:30pm-8:00pm*





## THE PRESIDENT'S MESSAGE

### PRESIDENT REPORT - NOVEMBER 2019

Mr. Geoffrey Cavalier, CSI,  
Assoc. AIA, NCARB  
CSI Knoxville Chapter President  
[cavaliergeoffrey@gmail.com](mailto:cavaliergeoffrey@gmail.com)



If you were not able to attend October's meeting you missed a very well attended and informative meeting. Our guest presenter was Les Lundberg from Irwin Seating Company. His presentation was about auditorium seating, something that most people in the construction industry will work on at some point in time because auditoriums can be part of many building types like education, worship, theaters, arenas and stadiums. Even with our experienced and knowledgeable attendees, they learned some new things. With me being relatively new to the construction industry, I am always impressed by how much my colleagues learn at CSI events. There is always so much to learn, and our team does an exceptional job of getting a wide variety of presenters and topics covered at our CSI events. There is always something new to learn and CSI has been facilitating my personal education and I know it can do the same for you!

We recently had our annual golf tournament which has been set up by Wes Crow. I wanted to say thank you to Wes for volunteering to doing this for so many years. The golf tournament is one of our largest fundraisers and inherently an integral part of our local chapter. In our CSI chapter there is always a place for everyone to help out the chapter, whether that is moving to different positions as needed, or finding a specific niche that you can help with for multiple years. If you are a CSI member who is interested in helping out the chapter with your time, please let us know and we will swiftly find you something to do. We are always in need of help and it is ultimately the time given by our many volunteers that makes this one of the best CSI chapters in the nation.

Last month I attended and gave a presentation about building codes at the monthly CSI Student Chapter meeting. I was joined by many other construction professionals who took the time to come and meet with these students and share their experiences with working with building codes. Students at the College of Architecture and Design receive a high-quality education concerning design and architecture, but the college can

only fit so much education in the five year program. The students are somewhat familiar with codes and they are told bits and pieces of it while working on their studio designs, but they aren't told WHY buildings codes exist. My presentation provided them an introduction to building codes. I explained what the codes are, why we have them, when do we use them, who enforces them, and more in an attempt to instill some reverence in this thing that affects the daily lives of everyone, specifically us in the construction industry.

We were informed that what the students want is to receive a supplemental education closer to what they would need to know working in the design & construction industry as well as meet with actual professionals in the construction industry, so CSI Knoxville delivered. If you are interested in coming to a student meeting and sponsoring a student membership, please contact Brian Sickles at [brian.sickles@ssainc.com](mailto:brian.sickles@ssainc.com). Thank you, Brian, for doing an exceptional job helping the students organize and getting professionals at these meetings.

Mr. Geoffrey Cavalier, CSI, Assoc.  
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CSI Knoxville Chapter President  
[cavaliergeoffrey@gmail.com](mailto:cavaliergeoffrey@gmail.com)



## CSI NEWS

### CSI KNOXVILLE WINS THE CHAPTER CUP

William Sundquist, CSI  
Whitacre Greer, Chattanooga TN



Please join me in congratulating all the members of the Knoxville Chapter of CSI. Some of you might have heard they are the winner of the 2019 CSI Chapter Cup for the largest membership increase in the Institute. I am so proud that a GSR Chapter won this honor.

Again, please, join me in congratulating all their members; Gulf States Proud!



## PRESENTATION SUMMARY

### DUCTSOX-AIR DISTRIBUTION DESIGN AND APPLICATIONS USING TEXTILE AIR DISPERSION

**John Lipscomb**  
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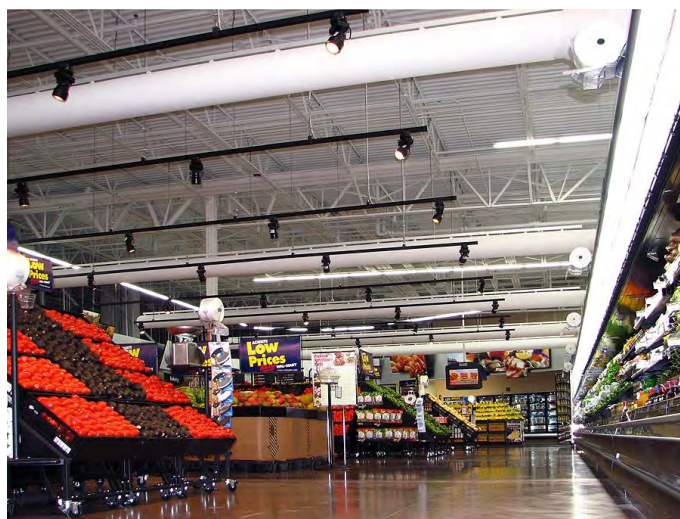


#### Learning Objectives:

1. Using DuctSox as part of the aesthetics in a commercial and industrial building.
2. Explore the many applications in which a DuctSox Textile Air Dispersion System can be used.
3. Advantages of a DuctSox system vs a traditional metal air distribution system. Performance and Cost.
4. DuctSox is not just for pools and gymnasiums! Learn about using DuctSox in Specialty Applications Such As Data Centers, Laboratories, Grow Facilities, Underfloor, Stadiums and Arenas.

**Certification:** DuctSox is certified to provide 1 credit/hour of AIA Continuing Education Credit. DuctSox can file the credit directly with AIA.

**Presenter:** John Lipscomb is the Southeast Regional Manager for DuctSox and is also responsible for all international markets including 45 distributors covering 110 countries. Mr. Lipscomb has been with DuctSox for 20 years and in the HVAC industry for 33 years. John has delivered over 250 accredited AIA presentations in his time with DuctSox.





## CSI TECHNICAL

### WHAT I LEARNED FROM CSI...

## ROOF DRAINS

**MR GARY T. BERGERON, CSI**  
Kelso-Regen Associates, Inc.  
CSI Knoxville Technical Chair  
[gary@kelso-regen.com](mailto:gary@kelso-regen.com)



We all welcome a rainstorm after a prolonged dry spell, but how many of us think about what happens to all that rain when our favorite big box store receives a significant amount of storm water on its flat roof? Most don't give a second thought to a torrential storm event, but to an architect, structural engineer, and the plumbing engineer, there are some serious considerations.

Collection systems are installed on most flat roofs to carry rain water into the site storm drainage system. According to the International Plumbing Code, storm drainage systems are sized for a 100-year, one-hour rainfall event. The rainfall amount, intensity, and duration are defined in the plumbing code for every geographic area of the country.

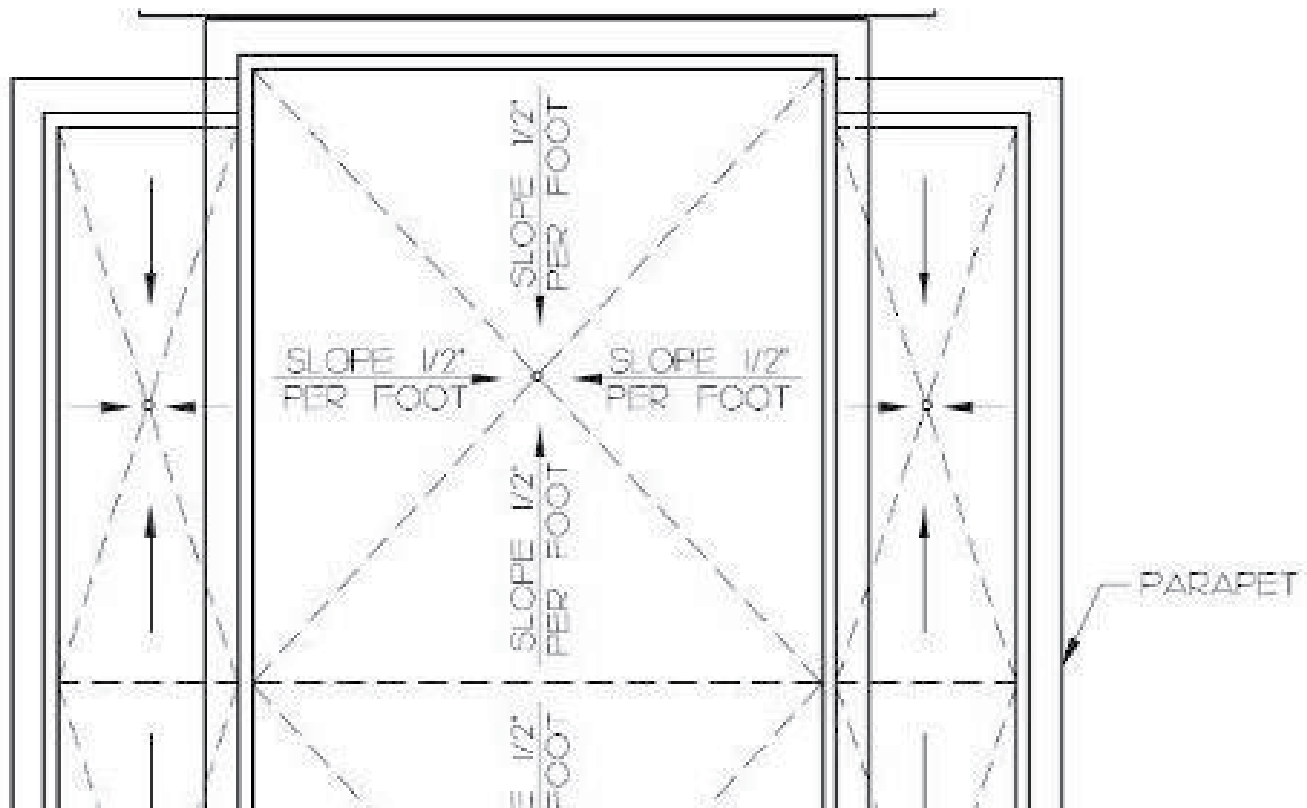


Roof collapse  
<http://rci-online.org/wp-content/uploads/2018-cts-patterson-mehta.pdf>



Stormwater ponding  
<https://superiorroofdrainpans.com/common-features>

Many buildings utilize a sloped roof towards the back of the building with a gutter extending the full width of the building. Multiple downspouts, mounted on the building, connect to the gutter. Other buildings are designed with



Roof drain and cricket locations



Secondary roof drain nozzle with "after market" rodent/bird nest protection

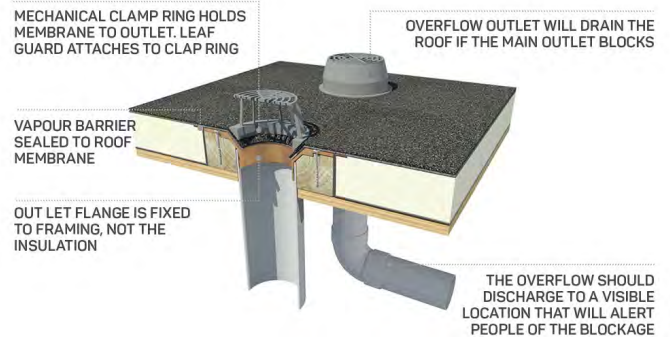


Secondary roof drain nozzle with hinged rodent/bird nest protection



Roof drain & parapet wall scupper

roof drains and internal piping to manage the storm water connection to the site drainage. Plumbing engineers determine the number and size of roof drains with the architect's input; who also determines the roof insulation thickness and positive slope toward the roof drains. The structural engineer determines the allowable depth of rainwater on the roof in his structural calculations. If the architect's, plumbing or structural engineer's calculations are incorrect, water ponding on the roof can cause a roof to collapse.



**INTERNAL OUTLET & OVERFLOW** at low point of membrane roof (detail shown on a warm roof design)

Primary and secondary roof drains

Roof drains specified by plumbing engineers come in many different configurations. Typically installed at low points, roof drains are sometimes located adjacent to the exterior wall near a scupper. Scuppers are holes in the parapet wall that allow storm water to flow through if the primary roof drain becomes clogged with debris. The scuppers are intended to be placed approximately 2" higher than the primary roof drain. If scuppers are not specified by the architect, plumbing engineers must specify secondary emergency roof drains adjacent to the primary roof drains. The secondary roof drains incorporate an overflow device, or a dam 2 inches tall, that allows stormwater to enter the secondary drain after the primary drain becomes clogged. The tapered dome strainer on the primary roof drain is intended to allow drainage even if debris is present, but when the debris reaches a certain height, the secondary roof drain allows drainage before the water depth reaches a roof collapse point. The secondary roof drain pipe discharges at a visible location. This alerts maintenance staff to a blockage in the primary roof drain.

If you want to discuss this and other construction issues, come to the next CSI chapter meeting, CSI region conference, or the national CONSTRUCT convention.

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



## **NEWS RELEASE**

**Architectural Woodwork Institute**  
**46179 Westlake Drive, Suite 120**  
**Potomac Falls, VA 20165**



Contact: Margaret Fisher  
(P) 571.926.5522, [mfisher@awinet.org](mailto:mfisher@awinet.org)

### **AWI LEADS NEW WOODWORK STANDARDS DEVELOPMENT THROUGH ANSI PROCESS** *New Casework Performance Duty Levels Established*

**Potomac Falls, VA, July 10, 2019** – The Architectural Woodwork Institute (AWI) is creating a new suite of standards for architectural woodwork. The creation of these standards, which is expected to continue over the next three years, will define and address each aspect of architectural woodwork. Development of the **AWI 0641 – Architectural Wood Casework Standard** is currently underway in its second round of public comment.

**AWI 0641 - Architectural Wood Casework Standard** features the well-known Premium, Custom or Economy Grades as designations for aesthetic requirements while a new designation of **Casework Performance Duty Levels** is being introduced. Through rigorous casework testing performed at AWI's National Testing Center in Americus, GA, AWI established data-driven designations of casework load performance measures as Duty Levels 1, 2, 3, & 4. "Providing specifiers and design professionals with simpler and clearer methods to designate casework performance and casework appearance improves the specification and design process and contributes to the owners receiving the best value", stated AWI staff member Margaret Fisher. The new AWI 0641 - Architectural Wood Casework Standard is expected to complete the American National Standards Institute (ANSI) vetting process and is slated for publication in first quarter of 2020.

While the **Architectural Woodwork Standards (AWS), Edition 2, 2014** remains AWI's current and recognized woodwork standard, Ms. Fisher, noted that several standards, including AWI's first ANSI-designated standard, **ANSI/AWI 0620-2018 – Finish Carpentry/Installation**, became effective on March 15, 2019.

The **ANSI/AWI 0620-2018 – Finish Carpentry/Installation Standard**, along with **AWI 100 – Submittals**, **AWI 200 – Care & Storage**, and **AWI – 300 Materials**, are currently available for download and reference from AWI's website, [www.awinet.org](http://www.awinet.org). Design professionals and specifiers are encouraged to use AWI's new Standards in upcoming project specifications. Meanwhile, interim specification language recommended by AWI is as follows: **"All work in this section shall comply with AWI's published standards, latest edition, for grades of architectural woodwork indicated for construction, finishes, installation, and other requirements."**

AWI will continue to provide technical assistance for the users of the current **AWS, Second Edition** and each new AWI Standard as they are released. Technical help is available by contact AWI Technical Director, Ashley Goodin, at 229-389-2543 or by email at [help@awinet.org](mailto:help@awinet.org). If you would like more information about this topic, please contact Margaret Fisher at 571-926-5522 or by email at [mfisher@awinet.org](mailto:mfisher@awinet.org).

###

**About AWI:** The Architectural Woodwork Institute (AWI) is a nonprofit trade association founded in 1953. Today, AWI represents nearly 3000 members consisting of architectural woodworkers, suppliers, design professionals and students from around the world. 46179 Westlake Drive, Potomac Falls, VA 20165

## HINDSIGHT

### PHOTOS FROM OCTOBER CHAPTER MEETING AND GOLF TOURNAMENT

Photos by Stacy Colbaugh, CSI, CDT, AIA  
and Mr. Gary Bergeron, BS, CSI, ASHRAE, ASPE, USGBC



1959  2019  
*60th Anniversary*





## CSI STUDENT CHAPTER

### PHOTOS FROM OCTOBER STUDENT CHAPTER MEETING

Photos by Stacy Colbaugh, AIA, CSI, CDT  
[scolbaugh@lewisgroup.net](mailto:scolbaugh@lewisgroup.net)

**The next student chapter meeting for the fall semester is tentatively scheduled**  
**"Think Tank" – 1st floor of the Architecture Building**  
**1715 Volunteer Blvd, Knoxville TN 37916.**  
**November 08, 2019**  
**12:15 – 1:15pm**



## CSI MEDIA

### CSI DIGITAL BADGES

CSI is proud to launch digital credentials issued to all recipients of the CDT®, CCCA, CCS and CCPR certifications. These well-established and well-known industry designations will gain enhanced visibility within and beyond our industry through verified digital distribution.

Certificants can

accept, display and share their credential through email, social media (LinkedIn, Twitter, and Facebook accounts) and on their professional signature lines. The Construction Specifications Institute is proud to recognize learning and enhance the verification of our credentialing programs in this innovative method. There is no fee for this service and acceptance of your badges is entirely up to you.



#### What is Digital Badging?

We are committed to providing you with the tools necessary to achieve your professional goals and we understand that communicating your credentials in an ever-expanding online marketplace can be challenging. That is why we have established a program to provide you with a digital version of your credentials. Digital badges can be used in email signatures or digital resumes, and on social media sites such as LinkedIn, Facebook, and Twitter. This digital image contains verified metadata that describes your qualifications and the process required to earn them.

#### What are the benefits of a CSI Digital Badge?

- A web-enabled version of your credentials that can be shared online.
- A more efficient way of sharing your certification accomplishments via social media platforms
- Labor market insights that relate your skills to jobs
- A trusted method for real-time credential verification

#### How to claim your badge

Current certification holders will receive an email\* inviting you to accept your badge

- Click the link in the email
- Create an account on the badge site
- Accept your badge and start sharing

If you didn't receive the email, go directly to [youracclaim.com](http://youracclaim.com) and create an account using the same email you use for your CSI account. Once logged in, you can accept your badge(s). Have questions? Contact [certification@csinet.org](mailto:certification@csinet.org).  
<http://csiresources.org/certification/certification-digital-badges>

### **FIVE DISRUPTIVE TECHNOLOGIES THAT WILL CHANGE SPECIFICATIONS FOREVER**

By Ms. Susan Davis, RA, CSI, CDT, PMP  
[babydavis111603@aol.com](mailto:babydavis111603@aol.com)



At CONSTRUCT 2019, I was waiting outside the education halls when I ran into a very interesting man. Paul Doherty, RA, CDT, FIFMA of The Digit Group, was talking about some amazing projects he was working on currently. One project involved total community development and another was a unique approach to a public/private partnership (PPP). Paul was so interesting, I arranged to sit in on a session he presented the next day and I was not disappointed. Paul spoke on Five Technologies that would change the way we build.

There is a lot of fear around new technology. The reality is, the robots that we will integrate into our daily lives are roombas, not Terminators. We have to think about technology in new ways because technology is already being integrated into the buildings we build. With the new tools we have, we have to remember that you need a classification system (like Masterformat) to make that data understandable.

#### Art of the Possible

Collision of industries- let other industries fund research

#### 1. Machine learning artificial intelligence

I'm sure you have realized that Siri has started to learn the patterns that are unique to you. When I get in the car Sunday afternoon, Siri suggests a traffic route to my mother's. She has learned that it is my pattern to visit my mother on Sunday and anticipates that I will do that again. With the proper algorithms, machines can "learn" new things. This is useful to us because the less time we spend having to calculate outcomes, the more time we can spend being creative. I was introduced to an incredible (free) technology that will allow you to enter your wall components and the app will check compatibility, make suggestions, and give you outline specifications (ProWall Tools at [prowall.h-b.com](http://prowall.h-b.com)). It can be easy to hit copy paste without really thinking it through. With smarter tools, instead of getting productivity out the door faster we can be getting CREATIVITY out.

IOT - internet of things. IT is a fourth utility now and connects to everything

#### Static vs dynamic data

#### 2. Voice assistants

Nifty by ProCore allows field guys to do daily reports by phone call. If a superintendent has not filed his daily report, the app recognizes by location that he is leaving the site. The super receives a phone call and answers some questions verbally. The app uses this information to create a daily report and emails it to the appropriate person. How easy is that?

#### 3. Big Data

With smarter tools, data can become collected and used in ways we haven't been able to before. Machines can talk to machines. These can give us project insights and analytics.

#### 4. Augmented Reality

We have seen some of the virtual reality headsets that allow clients to experience a space before it is built. Paul predicts that High tech = high touch. Sometimes high





touch means emotional not tactile. This technology is going in some useful directions. Strxur by Bluebeam allows layout by VR goggles. A framing carpenter puts on the headset and is guided exactly where elements go. This is another way that technology can help us bridge the gap in the available trade skills. With less time spent on layout, the framing team can accomplish the build quicker and with less people.

Augmented Reality can also have a great impact on facility management. A technician can go to the site of the problem and see through the headset what steps should be taken. If he runs into problems, he can contact the product support line directly and work through it immediately. This reduces the number of return trips.

### 5. BIM 2.0

Paul predicts that the next step in BIM is about the organization of the data contained within the model and how that information is used. Rather than having data attached to geometry, the data will generate the geometry.

Did you know that Nashville is getting ready to launch an autonomous mass transit system? The autonomous vehicles will operate on separate roads from regular traffic. Rather than rely on GPS, the vehicles will use streetlamps for location. The same streetlamps will also be used to carry a 5G signal. The bandwidth of the signal will be sold to private carriers and allow the transit system to pay for itself. What will the BIM look like that operates this system? Will CSI have an impact on how it is organized?

Paul spoke about several exciting technologies that seem futuristic. But, in each case, he gave us examples of how this is happening now. In closing he reminded us that all technology must:

- be data driven but human focused
- keep the bigger story in focus
- embrace the collision of industries
- do good for our world

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



## CSI MEMBER SPOTLIGHT

### CSI MEMBER SUSAN DAVIS OPENS NEW FIRM - PERSONAL SPACE

Knoxville CSI Member Susan Davis, RA, CSI, CDT, PMP has recently opened her own construction firm – Personal Space– to provide residential construction services to the “typical East Tennessee family.



Susan received her Bachelor of Architecture in 2001 from Tennessee, where she also joined CSI and earned her CDT. She has a varied background, which includes residential and commercial design but her experience with a defense contractor allowed her to expand into project management. This got her out of the office and into the field, and some of those fields weren't even in the US.

She has continued her project management pursuits while working with Hickory Construction and there she realized there was a niche in the market that wasn't being met. Thus she took the leap and Personal Space was born.

She needs those project management skills because she is a single mother of three (15, 13 and almost 2) and has lots of activities to juggle. But she is doing it well.

Susan credits CSI with providing her a “lasting support network. I always have someone I can call. If I need recommendations for someone who can do a particular kind of work, or supply a particular material, or if I need to know how to use a product correctly, I have someone that I know their face.”

Her firm has been featured in Everything Knoxville so check it out. Or visit her website at

<https://personalspaceconstruction.com>.



# CSI GULF STATES REGION LEADERS – 2019-2020

## CSI GULF STATES REGION OFFICERS AND COMMITTEES

### OFFICERS

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# CSI KNOXVILLE MEMBERS – NOVEMBER 2019

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Mrs. Michelle Barillaro, CSI  
Mr. Gary Bergeron, BS, BA, CSI, ASHRAE, ASPE, USGBC  
Sharon Braden, CSI  
Elizabeth Brandel, CSI  
Mr. Benjamin Brewer, BA, CSI, CCCA, CDT, AIA, CCA, NCARB  
Mr. Josh Brock, CSI  
Ms. Deborah Brooks, CSI  
Patrick Brown, CSI  
Mr. Carl Bryant, CSI  
Josh Buchanan, CSI-EP  
Mrs. Mirelys Calise, CSI  
Mr. Geoffrey Cavalier, CSI, Assoc. AIA, NCARB  
Markus Chady, CSI, CDT  
Ms. Stacy Colbaugh, AIA, CSI, CDT  
Ms. Patricia Corbitt, CSI  
Ms. Donna Covert, CSI, CDT  
Mr. Paul Crow, CSI  
Ms. Susan Davis, RA, CSI, CDT, PMP  
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Kari Essary, CSI-S  
Mr. Jason Estes, CSI  
Mr. Joseph Fielden, CSI  
Kathryn Fuller, CSI, CDT, AIA, NCARB  
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Ms. Alisha Gotham, CSI-EP, CDT  
Mr. Gordon Heins III, CSI

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# 2019-2020 KNOXVILLE CHAPTER CSI LEADERS



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