



CHATTA DATA

Spring Issue 2021
Volume 51

From our President:

Wow, what a year. What a crazy, opportunity filled year. I've been a member of the Chattanooga Chapter of CSI for more than 15 years. I've served as the Product Show chair for a number of years and have been on the Chapter Board for several years. As I would listen to the discussions that the sitting President would have with other members of the board I would think, "Wow, I have no idea what they are talking about". As I served my time as Vice President and President Elect, I knew my time was coming. When it finally came, I still had a lot of questions regarding the detailed workings of the Chattanooga Chapter. To say I was a little apprehensive would be a huge understatement. What I didn't fully realize was that the Chapter wasn't just about the President. It wasn't about any individual. It was about the collective. The sum of the whole. I quickly saw that I didn't have to know everything about the workings of the Chapter. I was surrounded by a group of individuals that knew everything I needed to know. I have always been impressed with the people of the Chattanooga Chapter of CSI. The dedication they have, year after year, is inspiring. As sitting President, I had access to each of these individuals and the vast amount of knowledge they possessed.

Had this been a normal year, the challenges would have been large enough. Add in a global pandemic, a complete shutting down of life as we know it, and the challenges were compounded exponentially. How or if the board would meet each month was an unknown. Would we have monthly Chapter meetings? If so, how, where, when? Could we offer Continuing Education Credits? Would the regular chapter events such as the Product Show and Chili Cook-off happen? If they did happen, what would they look like? Slowly each of these questions, and many more, were answered. The answers didn't come from an individual. The answers came from the Collective. Even though no one had experienced anything like what the Covid Virus brought to us, the knowledge of the group was enough to pull off an outstanding year. I am and will forever be grateful to each member of the Collective for their advice and guidance.

The 2021 – 2022 year is going to be exciting. After several years of trying something different, we will be moving our Product Show back to the month of February. We will have a larger venue and hope to attract many travel hungry vendors. Our very popular Chili Cook-off will return and I'm sure it will be better than ever. You will also see the return of in person Chapter Meetings. While our Chapter Board will change slightly, I will still have the advantage of many people that are a lot smarter than I am.

As we wrap up the 2020 – 2021 Fiscal Year, I wish each of you a happy and enjoyable summer.

- Jeff W. Tippens, CSI, CDT

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**CSI CHATTANOOGA
CHAPTER
SLATE OF OFFICERS,
FY 2022**

PRESIDENT:

Jeff Tippens, CSI, CDT

PRESIDENT ELECT:

Kenny Tyler, CSI, CDT

VICE PRESIDENT:

William Sundquist, FCSI

SECRETARY:

Amy Fleming, CSI, CDT

TREASURER:

Shelbye Lynn, CPA, CSI-EP

PAST PRESIDENT:

Paul Thompson, CSI, CDT

DIRECTOR 1:

Jennifer Thomas-Woods, CSI-EP

DIRECTOR 2:

Rhonda Bailey, CSI

DIRECTOR 3:

Bill Wilkerson, CSI

BOARD ADVISOR:

Jimmy Lail, FCSI

Board Meeting — Monday, April 5, 2021

Hotel Indigo — 300 West 6th Street- Chattanooga, TN

Present: Jeff Tippens, Cindi Brooks, Amy Fleming, William Sundquist, Bill Wilkerson, Jimmy Lail

Proxy Members: Cindi Brooks for Shelbye Lynn, William Sundquist for Jennifer Thomas, Jimmy Lail for Rhonda Bailey

Notes:

- Jeff called the meeting to order and the April Agenda was reviewed
- The February Meeting Minutes were reviewed - Bill made a motion to accept, Cindi seconded the motion, motion carried
- The Treasurers Report was reviewed - Amy made a motion to accept, Kenny seconded the motion, motion carried
- New Business
 - BBQ Cook Off
 - o Will occur in June
 - o Two locations were discussed: DH&W Office Courtyard and JDH facilities
 - o It was determined that we would ask JDH to host the BBQ Cook Off at their facilities
 - New VP Needed
 - o William will serve in this position
 - Marshall Hildebrand Discussion
 - o The idea of offering this to trade schools and not just colleges was presented
 - o Catoosa County is starting a career academy as a possible focus area
 - o Gold Academy in Cleveland as a possible focus area
 - o AGC School as a possible focus area
 - o The consensus was that this was a good idea with possibly putting a little more emphasis on the trade schools at this time
 - o Requirements for the scholarship were discussed that included being a chapter member, being a family member of a chapter member, chapter involvement, and membership fee payments. No decisions were made relative to requirements.
- Committee Chairs
 - o It was noted that the Education Chair position merged with the Emerging Professionals Chair
 - o We still need a Membership Chair
- March Chapter Meeting
 - o It was noted that the Low Carbon Masonry meeting for this month was a little dry and lightly attended
 - o Bill mentioned that this might have been more interesting if we could have toured this type of facility; an onsite tour of a concrete making facility was posed as a future monthly CEU meeting topic
 - o The April Chapter Meeting will be at the Indigo Hotel from 5:30-7pm, April 22nd with an anticipated attendance of about 20 people – focus to be on the renovation of the Indigo Hotel with appetizers and one free drink covered by the chapter

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April Board Meeting cont.

- Gulf States Region Conference
 - Will be held in Huntsville, AL
 - August 20-21 Conference
 - August 19 Tech Day for CEU's
 - Bill offered the use of his lake house that has 4 bedrooms for anyone in our group for this time period
 - Submittals for awards discussed
 - Outstanding Chapter Award – Cindi made a motion that we submit for this, Jimmy seconded the motion, the motion carried
 - Outstanding Meeting Award – upcoming Indigo Hotel as a possible submittal was discussed
- Product Show
 - Has been moved to February of 2022
 - The chapter will promote this heavily
 - The Chattanooga Choo Choo was noted as a possible location, but everyone was reminded that they canceled on us for this event recently and left us scrambling for an alternative venue
 - The Convention Center was noted as a possible location and that their rooms can be partitioned to the size of the crowd being hosted; Bill to check on this site to determine viability/availability
 - A pay on-line option was discussed for vendors
- Bethany Clariday Scholarship
 - Jeff a briefing on the chapter's participation in this as competition judges
- Submittals for awards discussed
 - Outstanding Chapter Award – Cindi made a motion that we submit for this, Jimmy seconded the motion, the motion carried
 - Outstanding Meeting Award – upcoming Indigo Hotel as a possible submittal was discussed
- Upcoming Regional Board Meeting – Jeff to attend via Zoom on the chapters behalf
- Motion to adjourn by Kenny, Bill seconded the motion, meeting adjourned

WELCOME NEW MEMBERS!

- Fern L Dillard, CSI-EP
- Marc Hawkins, CSI
- Abigail Haynes, CSI-S
- Kaley Henry, CSI-S
- Mark Montgomery Jr., CSI-S
- Storme Patterson, CSI

MEMBER ANNIVERSERIES

APRIL

- Royce Cornelison, CSI, Assoc AIA – 20 yrs
- David Delcamp, CSI – 5 yrs
- Jeff Garner, CSI–4 yrs
- Marvin Long Jr., PE, CSI– 36 yrs
- Bruce martin, CSI, CDT, RRC–36 yrs

- James Moncrief Jr., CSI–30 yrs
- Barry Payne, CSI–4 yrs
- Houston Spencer Jr., CSI, Member Emeritus, CDT–34 yrs

MAY

- Cindi Brooks, CSI, CDT– 19 yrs
- Jordan Cornelison, CSI, Assoc. AIA– 1 yr
- Jan Pass, PE, CSI, CDT–33 yrs
- Chase Steele, CSI–1 year
- Robin Vasa, CSI, CCS, CDT, AIA, LEED AP–15 yrs
- Elizabeth Walker, CSI–3 yrs
- Keith West, FCSI, CCPR, CDT–29 yrs

JUNE

- Kenneth Tyler Jr., CSI, CDT–20 yrs
- Lauren VanArman, CSI–21 yrs

REGISTRATION AND HOTEL BOOKINGS OPEN

CSI NATIONAL CONFERENCE

SEPTEMBER
22-24
Nashville, TN
Grand Hyatt

[REGISTER HERE](#)

**Not a Zoom—
Repeat—this is
Not a Zoom!**

Register for the in-person CSI National Conference and book your hotel room at the beautiful Grand Hyatt today. Space is limited!



<https://www.csiresources.org/conference/home>

Save the Date for the CSI Gulf States Region Conference



Location:
Huntsville, AL

Event Dates:
August 19 - Technology CEU Day hosted by the CSI Huntsville chapter
August 20-21 - Region Conference

Details are forthcoming.



What I Learned From CSI – Sweating Ductwork

Gary T. Bergeron, CSI, CDT

Summer heat is upon us and your air conditioning system should get a check-up. Many in the building design and construction industry have observed sweating ducts, but some of the reasons are not always evident. The colder the air temperature in the ducts, the greater the chance of sweating ductwork. This is similar to the manner an ice-cold drink glass sweats in the summertime. Most of us use coasters to prevent water damage to the furniture. The cold drink is similar to the cold air in the duct and the drink glass surface is analogous to the metal ductwork surface.



Ballroom building with adjacent flat roof addition

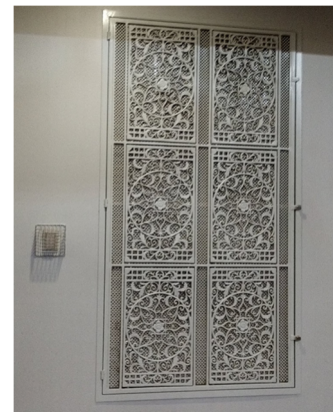
We were called to a recent building renovation jobsite to look at some proposed pipe routing and were also asked to review the sweating ductwork which was exposed view in the ballroom. For several previous summers, this ductwork had a history of sweating. The building is an event center with a large two-story ballroom, a wood floor, and pitched shingled roof. An adjoining flat roof building is where the ballroom HVAC unit is located and includes a commercial kitchen. The commercial kitchen features a large cooking rangehood and a conveyor dishwasher with a condensation removal hood. The exterior walls of the building are painted concrete block with the window

sills indicating signs of moisture intrusion. The building was built in several phases and started life as a church, which was expanded several times. Our recommendations are listed below in order of complexity:



Windows showing signs of moisture damage

1 Check the HVAC unit air filter(s) for routine filter changes. The “Fancy Vents” return air grille has evidence of dust buildup. Dirty air filters reduce airflow and make the supply air temperature in the ductwork much cooler which can cause sweating ductwork.



Fancy Vents return air grille

2 Check the HVAC unit condensate drain pan and condensate drain line. If the drain pan is dirty and allowing standing water, the water can re-evaporate into the air stream which causes higher humidity and sweating ductwork.

3 If the condensate drain line is partially blocked with “slime” build up, the condensate can back up into the drain pan. A drain pan tablet, chemical sock, or some periodic maintenance can resolve many condensate drain issues and reduce duct sweating. Do not use household bleach since it can corrode the HVAC coil.

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Sweating Ductwork Cont.

4 Check the rooftop HVAC unit’s setting for the outside air intake damper. If the outside air quantity is set too high, more humid air is introduced into the space which can cause the sweating ductwork. If the HVAC unit is equipped with an economizer, ask yourself if the outside air and relief air dampers are operating correctly.



HVAC unit condensate drain line
(servicechampions.com/how-does-condensate-drain-pan-work/)



HVAC unit condensate drain pan
full of debris
(hvacbeginners.com/air-conditioning-condensate-drain-line-clogged/)

Change the thermostat fan setting to the “on” position during occupied periods. The fan running “on” will reduce the stratification of the warmest air rising to the roof/ceiling and reduce the duct sweating. The fan setting in the “auto” position turns the fan on only when the unit’s cooling compressor is running.

5 Check the refrigerant charge on the HVAC system. If it is low on refrigerant, the coil might not be operating at the coldest temperature and not dehumidifying correctly; which causes sweating ductwork.

6 Change the thermostat fan setting to the

7 Check the programmable thermostat “setback” temperature and time schedule. If the HVAC system is completely “off” instead of a setback mode of 10 degrees from the summer setpoint, the ductwork will sweat due



Thermostat fan switch in “auto” position

to the temperature extremes and the hot humid air rising to the roof/ceiling. https://files.nc.gov/ncdeq/Environmental%20Assistance%20and%20Customer%20Service/IAS%20Energy%20Efficiency/Opportunities/Setback_Temperature_Control.pdf

8 Check for a building negative pressure relationship with the kitchen cooking hood and dishwasher hoods running. Crack one of the ballroom exterior doors partially open about 1” and put a piece of toilet paper in the door crack. If the toilet paper rushes in, the make-up air system for the hood(s) is not balanced correctly. A negative air pressure will result in more humid outside air to be drawn into the building every time the loading dock door is opened or guests are entering the building; and the ductwork will sweat.

9 If the cooking rangehood switches have separate exhaust and supply fan switches, re-work them so that one switch turns on both fans. Connecting the two switches will result in a better air balanced (not negative air balance) building and less ductwork sweating.



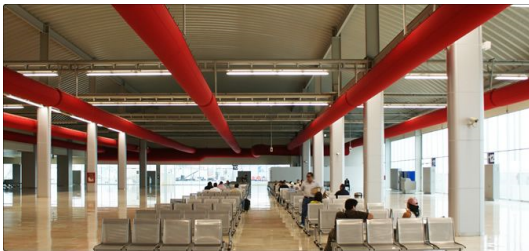
Dishwasher with large condensate removal

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Sweating Ductwork Cont.

10 Insulate the ductwork with sheets of closed cell Armaflex insulation. The insulation is normally matte black which would be well disguised in the space. Insulated ductwork will sweat less because the cold duct surface is not exposed to the humid air.

11 Remove the sheet metal ductwork and replace with fabric ductwork such as Ductsox <https://www.ductsox.com/resources/photo-gallery> or Hero Fabriduct <http://herofabriduct.com/completed-work/gallery/>. If the correct manlift and installation method is used, the wood gym floor will not be damaged.



Fabric duct work

12 The exterior Concrete Masonry Unit (CMU) walls were originally painted with air barrier/epoxy, but it was not applied at a thickness great enough to seal the CMU. The exterior was repainted, but the window sills are still showing signs of water intrusion. If the CMU is still “leaking”, then the HVAC system might never be able to de-humidify the space correctly.



Exterior painted concrete masonry block

13 Insulate the roof with rigid sheets of insulation as part of the new roof, as the architect recommended, to reduce the heat gain from the roof surface. This measure can also reduce duct sweating.

If you want to know more about these systems and other design and construction issues, come to the next CSI chapter meeting to discuss them with other members.

Save the Date

CSI Year End Celebration – OUTDOORS

June 30th at 5:30 PM (Food & Fellowship)

Meet @ Patio Bar – Hotel Indigo Downtown

Celebrate



Presentation By:
Jeff Tippens – Chapter President
Bill Wilkerson – Ken Brandenburg Award Presentation
Surprise Guest



CSI Fiscal Year 2021 Chapter Leaders

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CSI Fiscal Year 2021 Gulf States Region Leaders

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GSR Institute Director: William Sundquist, FCSI	423-385-4598	wsundquist@wgpaver.com

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