

CSI THE SPECK

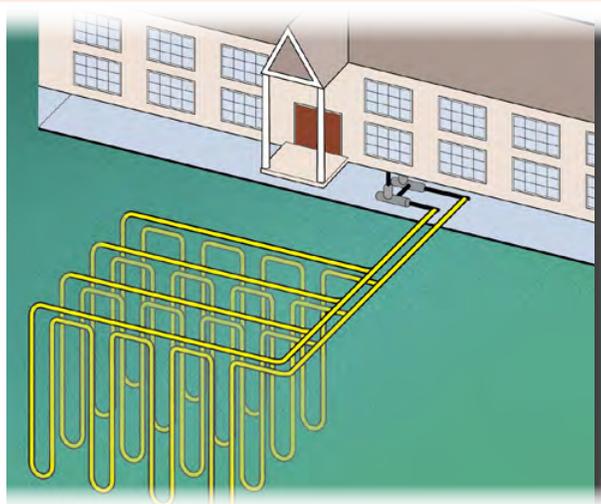
Knoxville Chapter

The Construction Specifications Institute

CSI KNOXVILLE CHAPTER MEETING TUESDAY, JANUARY 14TH GEOHERMAL HVAC SYSTEMS FOR ARCHITECTS

Presented By: Gary Bergeron, Principal and Co-Owner Kelso-Regen Associates, Inc.
(865) 748-6304 gary@kelso-regen.com

**1LU
HSW**



CALHOUN'S ON THE TENNESSEE RIVER

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 11:30 am
Seminar 12:00 pm

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

Please RSVP to csiknox@gmail.com by 3:00 pm on Monday, January 13th, 2020

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

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

JANUARY 2020

- 07 **CSI Board Meeting** - Tuesday, January 7th
Lunch meeting from 12:00 pm - 1:00 pm
Location: Lewis Group Architects
6512 Deane Hill Drive, Knoxville, TN 37919
- 14 **CSI Chapter Meeting** - Tuesday, January 14th
11:30 am at Calhoun's on the River "**Geothermal HVAC Systems for Architects**" Presented by Gary Bergeron of Kelso-Regen 1LU/HSW RSVP at csiknox@gmail.com
- 25 **MEP Class for ARE Prep** - Saturday, January 25th
9:00 am to 5:00 pm at Civil & Environmental Consultants' offices
2704 Cherokee Farms Way, Suite 101
Knoxville, TN 37920
Presented by Gary Bergeron
Registration link:
<http://events.constantcontact.com/register/>

FEBRUARY 2020

- 04 **CSI Board Meeting** - Tuesday, February 4th,
Lunch meeting from 12:00 pm - 1:00 pm
Location: Lewis Group Architects
6512 Deane Hill Drive, Knoxville, TN 37919
- 11 **CSI Chapter Meeting** - Tuesday, February 11th,
11:30 am at Calhoun's on the River



KNOXVILLE CHAPTER: JANUARY 2020

- 54 PROFESSIONAL**
- 1 EMERGING PROFESSIONAL**
- 2 STUDENT**
- 2 EMERITUS**
- 2 RETIRED**

- 61 TOTAL**



EAST TENNESSEE BUILDING PRODUCTS SHOW

Tuesday
MARCH 10

SAVE THE DATE!



THE PRESIDENT'S MESSAGE

HAPPY NEW YEAR!

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



Happy New Year! I hope that we all are recovering swiftly from the holidays. As much as I love the time off, time with friends and family, and good food, come January I am always ready to get back to my normal routine.

The annual CSI Product Show is Tuesday, March 10th. I hope you will be able to make it and it would be even better if you could bring a friend or even your whole office! If you would like to have a booth, please contact Josh Brock at joshua.brick@generalshale.com

The CSI board is constantly thinking about presentations and guest speakers for our many events. We have no shortage of ideas or people lined up to speak to CSI's members, but we always try to maximize the quality of our presentations. We want you to learn something new, whether it be about something you already are a master at, an entirely new subject, and of course everything in between. It can be about construction, design, business, government, or anything else that we think can help you improve in the construction industry. By giving you the resources to improve your career, I believe it will help the whole industry.

If there is something you want to learn about, PLEASE let us know. Whether it be for a specific project or just curiosity, we want to know what you want to learn. We want to know what presentations you have liked in the past so that we can invite them back. I would like to ask you if there is something YOU could offer? What in your job are you good at? Is it roofing? Concrete? Project management? Bidding? Revit? If you have never considered having a presentation to share with CSI, and maybe others, start thinking now. If you have thought about it, maybe now is the time to write up an outline or even start the graphic portion of the presentation. If you already have a presentation, then contact us and let us know that you are interested in giving a presentation sometime this year. To me, CSI is about people in the construction industry getting together and sharing what they know. Every person in CSI knows a lot of things that I don't know, and I am always eager to learn something from you all!

CSI MEMBER SPOTLIGHT

WELCOME TO KNOXVILLE CSI - MIRELYS CALISE, CSI

A new face at our CSI meetings is designer Mirelys Calise, who has moved this past year from Orlando, Florida where she worked as a Senior Designer and Planner for HHCP International. Her architect husband, Richard, practices with Lose Design in West Knoxville.



Mirelys has her own multi-disciplinary firm – Calise Design Studios – where she offers architectural design, production services, furniture design, and digital arts. <http://www.calisedesignstudios.com> This talented woman has a broad range of experience that includes residential and commercial projects, urban design, infill projects, interior renovations, retail and office both here in the U.S. and internationally.

She has volunteered her graphic skills and expertise in marketing to help get the word out about the all that we are doing in the Knoxville Chapter. We were happy to have her join us for the Chapter Planning Meeting this summer. She already is volunteering her talents with the East TN Community Design Center and assisted in a recent charrette on the redesign of the commercial corridor of Alcoa Hwy.

As if this is not enough to keep her creative juices flowing, she is a pastry chef and crafts artist. There will be lots of volunteers to beta test those tasty treats. Welcome to Knoxville and welcome to the Knoxville CSI chapter. We are so glad that you chose East Tennessee as your new home.



Mirelys Calise, CSI

Designer/Owner

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mirelysc@calisedesignstudios.com

www.calisedesignstudios.com

CALISE DESIGN STUDIOS, LLC



PRESENTATION SUMMARY

GEOTHERMAL HVAC SYSTEMS FOR ARCHITECTS

Description: An introduction to the basics of commercial geothermal heat pump systems. This presentation starts with an introduction to the basics of geothermal heat exchanger systems then presents some of the details of the heat exchanger and building systems, including the different types, how they work, and how they are installed. The presentation emphasizes the most popular type of system installation – vertical closed-loop systems – but covers all of the common types. The advantages and disadvantages of the different applications are also presented, as well as helpful tips and advice on system design, selection and installation.



Learning Objective: Participants should gain a better understanding of how geothermal heat pump systems operate, the various types of system choices and selection methods, and many details of the installation process for each type.

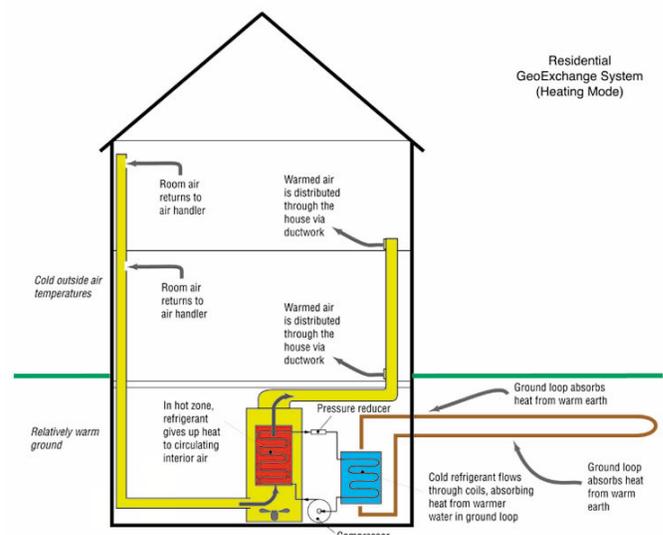
Presentation: The CES facilitator utilizes a PowerPoint presentation to provide viewers with excellent visual representations (pictures, charts, diagrams, etc.) and detailed commentary of the components and installation processes employed in geothermal heat pump systems. The facilitator will also allow time for questions to be answered during the presentation.

A/V Needed: A screen and electrical power. The facilitator provides the computer with the PowerPoint presentation and a digital projector.

Target Audiences: This presentation was developed with architects in mind, but would be educational for owners, general contractors, and other design professionals with limited geothermal HVAC experience.

Facilitator Qualifications: The CES facilitator has over 30 years experience in mechanical consulting engineering work and has designed systems in approximately 40 states. He has also attended the International Ground Source Heat Pump Association (IGSHPA) three day contractor training and has designed over two dozen commercial geothermal HVAC systems.

Gary started his career in 1984 as a mechanical designer with Assaf, Simoneaux & Tauzin Consulting Engineers in Baton Rouge, then moved on to Pruett & Ford Consulting Engineers in Augusta, Georgia. Johnson Controls Facility Management division lured Gary away from consulting engineering where he was the manager of a 90-person maintenance and repair department of 1400 buildings at the US Army’s Fort Gordon base for approximately two years. Once in Knoxville, Gary worked for Albert Bedinger Engineers for four years then accepted a position with Kelso-Regen & Associates in the spring of 1995, where today he is co-owner of the firm. Gary attended the International Ground Source Heat Pump Association (IGSHPA) School in 1997 where he became a member of the association and also learned about the design and installation of geothermal heat pumps, piping and wellfields. He has been active in professional organizations such as the American Society of Plumbing Engineers (ASPE) and American Society of Heating, Refrigeration and Air conditioning Engineers (ASHRAE), having held several offices for ASPE, such as Vice President Technical and Vice President Education, and is currently serving on its Board of Directors as Vice President Technical for the third time. Gary is also a member of the national Construction Specifications Institute (CSI) serving a two year term 2015-2017 as CSI Knoxville chapter president and is the 2017 recipient of the CSI national Robert P. Brosseau award along with the 2018 Gulf States Region Eugene Wetzel award. Gary is also a local chapter member of the US Green Building Council (USGBC). The Architectural Registration Exam MEP review has been presented by Gary in Memphis, Chattanooga, and Knoxville to emerging architectural professionals since 2012. He can be contacted via phone at the office at 865-588-5348, cell: 865-748-6304 or via e-mail at gary@kelso-regen.com.



CSI TECHNICAL

**WHAT I LEARNED FROM CSI...
FEELING UPTIGHT?
GET SOME AIR!**

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



We all look forward to a cozy wood burning fireplace when cold weather hits our area. Fireplace construction technology has not radically changed since Rumford introduced his fireplace design in the late 1790's. But today's tightly constructed homes require some considerations to make a conventional wood burning fireplace burn correctly and not result in a smoke-filled home.

The Brick Industry Association includes several details on residential fireplace design, published in 1983, using Rumford fireplace concepts. One of the most important ideas in the attached fireplace detail is the use of an outdoor air intake to provide combustion air. If an air path is not provided as part of the fireplace construction, the combustion air will be drawn from the room containing the fireplace. Additionally, if the volume of the room is not large enough, the air will instead draw through the cracks alongside the doors and windows. The cold air drawn from around the doors and windows will cause uncomfortable air drafts on the people in front of the fireplace. If enough combustion air cannot be provided, the fireplace will backdraft and smoke will fill the room.

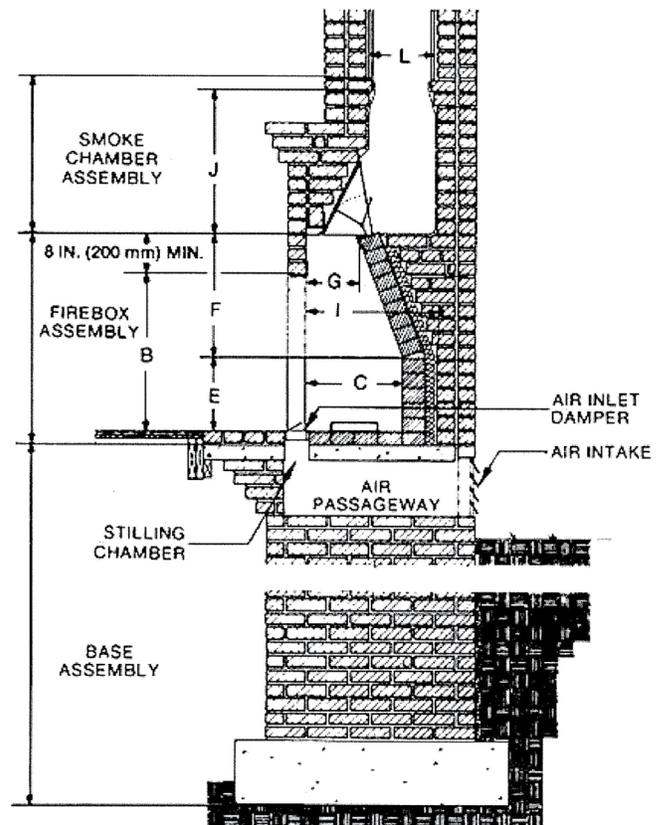


Exterior of house with chimney



Chimney cap with three fireplace flues

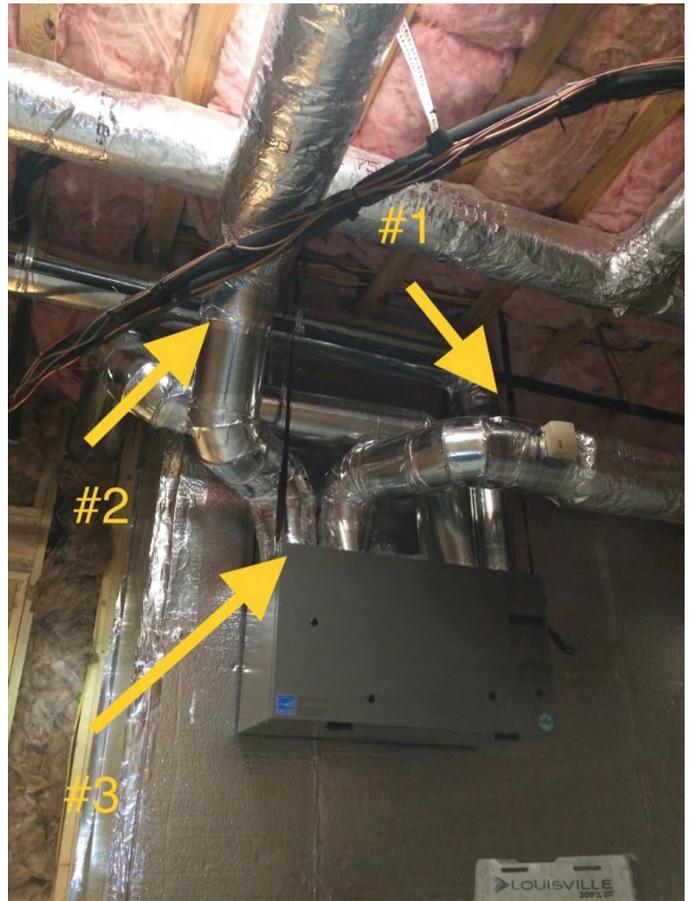
A recent project involved a one-year old house with three fireplaces. One fireplace was on the main floor; the second was in the basement; and the third was in the exterior patio. All flues used the same chimney structure with an attractive copper chimney cap covering all three flues. The owner would start a fire in the main floor and the smoke would go up the flue and back down the basement fireplace flue; filling the house with smoke, even with the basement fireplace damper closed. The tightly constructed house did not have an outdoor air intake in any of the fireplaces. In short, the



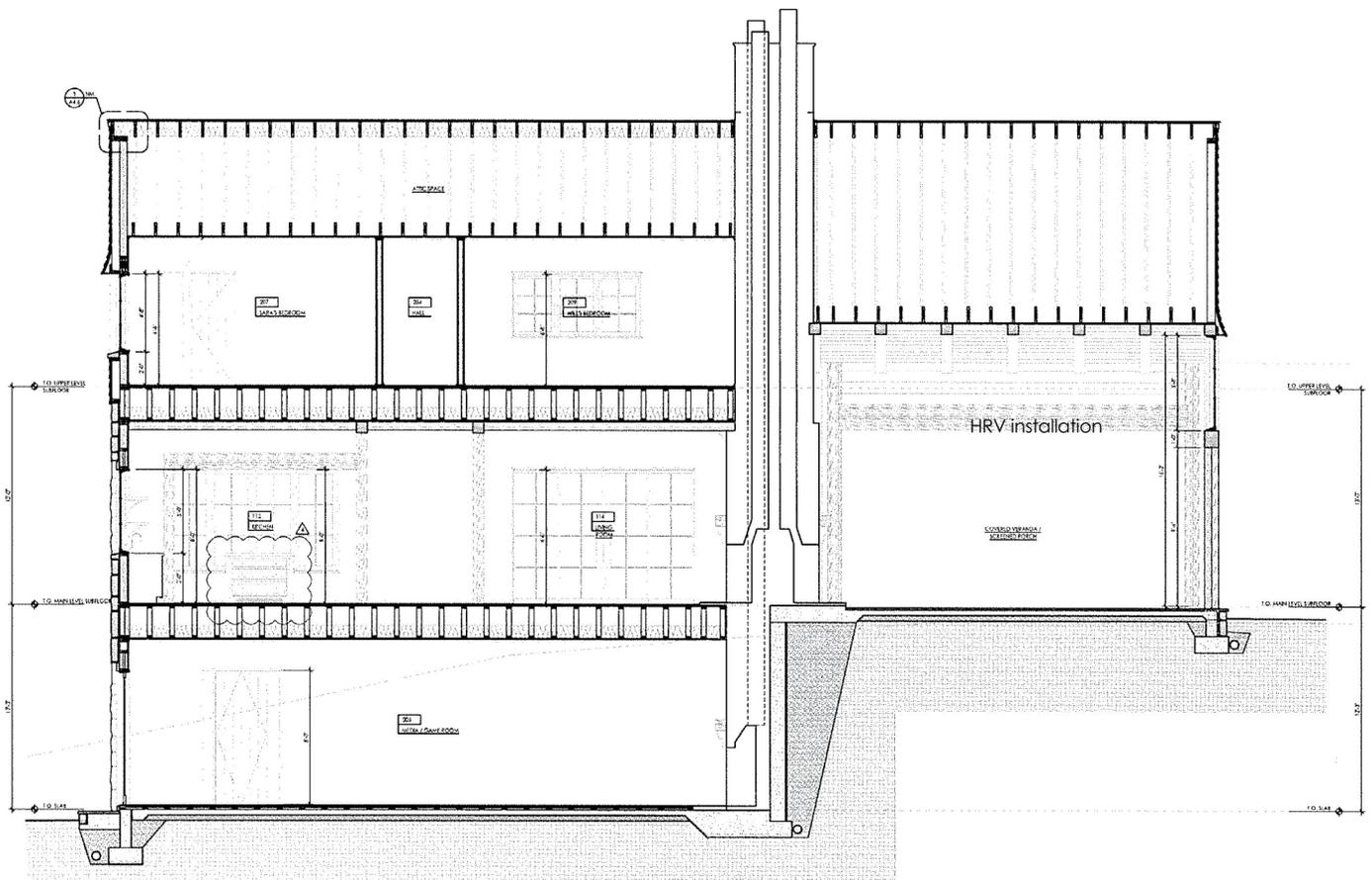
Brick Industry fireplace construction detail

main floor fireplace used the basement fireplace flue as the combustion air path and drew smoke down with the combustion air.

Several options were evaluated to resolve the smoking fireplace problem. One was a chimney cap induction fan for each flue. This option would require re-working of the chimney cap and installing an unsightly electrical conduit for each fan. Another option was to re-work the fireplaces to include an outdoor air intake. This would require reworking the stone and mortar which is difficult to match. A third option included installing a chimney cap damper, but this would require re-working the single-piece copper cap. The last, and successful, option was to utilize an Energy Recovery Ventilator/Heat Recovery Ventilator (ERV/HRV) to provide a dedicated combustion air path and pressurize the structure. Measurements via a blower door test revealed the need for a 200 Cubic Feet per Minute (CFM) HRV unit. The HRV was connected to a 4 inch x 12 inch outside air and relief air louver. As shown in the attached HRV diagram, it was installed in an exterior wall and connected to the return air duct of the basement HVAC unit. After the HVAC contractor completed this installation, the owner reported the following:



HRV installation diagram



House section showing three fireplaces

CSI EDUCATION

MEP CLASS FOR ARE PREP!

I've burned all fireplaces with the flues both open and shut. We have also burned multiple fires at once. There have been no issues and the problem seems to be solved. I've been in this house for a year and this is literally the first time we have been able to enjoy the fireplaces. I can't thank all of you enough for a concerted effort in solving this problem.

If you have an interesting construction or design related issue, come to the next CSI meeting to discuss it with other industry professionals.

Sources

<https://www.homeenergy.org/show/article/nav/heating/page/7/id/1075>

<http://www.gobrick.com/docs/default-source/read-research-documents/technicalnotes/19-residential-fireplace-design.pdf?sfvrsn=0>

<https://chimneysweeponline.com/hooa.htm>

<http://heatkit.com/docs/airreq.PDF>

<https://www.woodlanddirect.com/Chimney/Top-Sealing-Chimney-Dampers?state=20711>

Join Gary Bergeron, Vice-President of Kelso-Regen, for a day to learn about mechanical, electrical and plumbing systems to help with your ARE's. Gary brings great slides and lots of widgets to help you understand the in's and out's of these systems. HSW Credit is offered for each hour/topic! Plus, Gary will provide an authentic, Cajun lunch of home cooked Cajun Jambalaya and key lime pie for dessert.



The class will be covering the following topics:
 Energy overview and HVAC systems
 Plumbing systems
 Fire protection systems
 Electrical and Illumination systems
 Transportation systems
 Acoustics

You can register for this FREE study session

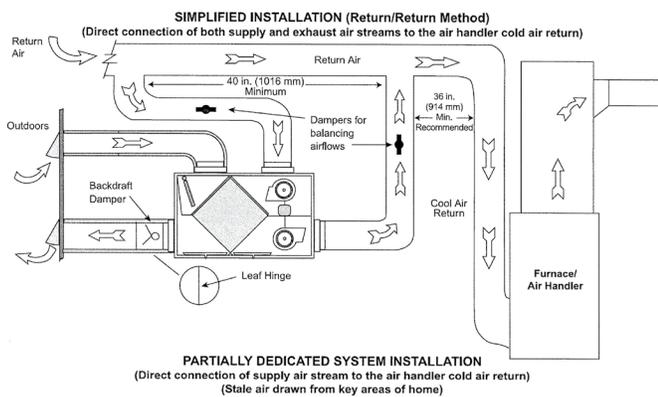
When:
 Saturday, January 25, 2020
 from 9:00 am to 5:00 pm EST

Where:
 Civil & Environmental Consultants' offices
 2704 Cherokee Farms Way
 Suite 101
 Knoxville, TN 37920

Contact:
 Dale Powers
 AIA East Tennessee
 8656375003
compexec@aiaetn.org

Register:
<https://events.r20.constantcontact.com/register/>

TYPICAL SYSTEM APPLICATIONS



HRV installation diagram

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March 10, 2020

East Tennessee Building Products Show



Bring your friends, learn what's new with our keynote speaker, eat, drink, and have a one on one with amazing product reps!

3:30pm - 7:00pm

**Foundry on The Fair Site
747 World's Fair Park Dr
Knoxville TN 37902**

Everyone in the Design and Construction Industry is invited to this free event!



Keynote Speaker

Ann McGauran

Tennessee State Architect



Ann is an Architect with over 25 years of architectural, project management and real estate operations experience, primarily with large multi-facility institutions. Ann has served in a variety of real estate roles for the State of TN since 2013 and was unanimously appointed as State Architect by the Tennessee State Building Commission (SBC) in 2017. As the chief staff officer of the

SBC, Ann provides real estate expertise on capital projects and transactions affecting the States ~90 million sq. ft. and ~900, 000 acre portfolio. Ann graduated from Auburn University with a Bachelor of Architecture and received a Master's in Healthcare Management from Owen School of Business at Vanderbilt University. Ann is NCARB certified and earned her initial architectural licensure from Florida and is currently licensed in Tennessee.

Ann, her husband Mick and their two sons Sean and Liam, live in Nashville.

March 10, 2020

East Tennessee Building Products Show

Check in:	3:00 - 3:30 pm
Keynote Speaker:	3:30 - 5:00 pm
Exhibits	5:00 - 7:00 pm
Hors D'oeuvres	5:00 - 7:00 pm
Hosted Beer & Wine Bar	5:00 - 6:30 pm

<https://csiknoxville.org/>



HINDSIGHT

PHOTOS FROM CSI HOLIDAY CELEBRATION AT RAMSEY HOUSE

Photos by Stacy Colbaugh, CSI, CDT, AIA AND Mrs. Katherine Proctor, RA, FCSI, CDT



HINDSIGHT

PHOTOS FROM CSI HOLIDAY CELEBRATION AT RAMSEY HOUSE

Photos by Stacy Colbaugh, CSI, CDT, AIA AND Mrs. Katherine Proctor, RA, FCSI, CDT



CSI EDUCATION

ONE TEAM, ONE BUILD – DIFFERENT ROLES WORKING TOWARDS A COMMON GOAL

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



At CONSTRUCT 2019, Mike Young, FCSI, CCCA with the City and County of Denver gave a learning session on understanding the different roles of the project team.

If you don't work together, function will suffer.

Understand the actual conditions at the site. If you reference a standard, make sure you know what it says. Have you thought about constructability and biddability?

Design build can mean many things. Include in your team as many parties as possible. Remember the goal of the team is to deliver the facility.

To achieve a common goal, everyone needs to know their role and responsibilities.

The three factors of quality are Time. Money. Scope. You may have heard this called the three legged stool. But remember there are also two phases of quality: Quality Assurance - ensuring requirements WILL be fulfilled

Quality Control - ensuring requirements HAVE been fulfilled

Quality also exists on a timeline: Learn from the past. If you want something done right, allow the time needed in the present. For the future, anticipate how the space may be used in the future.

We usually think about initial cost. Why would you buy a \$500 car? The initial cost is low but what is the life cycle cost? When are you going to have to replace it? This may be something you have to educate the owner on but remember that is your responsibility.

The OWNER is the reason the project exists and sets the tone for the team. If the owner fosters competition, you will get a more combative team. Owner should decide who provides direction, decisions, and oversight.

Respect others
Focus on strengths
Appreciate others' roles
Critique don't criticize

Owners:

Be honest about what is driving end date
Learn the process
Respect the schedule
You get what you pay for- advise included
Understand that the team should be paid
Don't ask the contractor for the unfair or impossible

Designers:

Educate the owner
Don't be optimistic
Include contingency
Be clear about what's in your scope
Respect that it's not your money
Assume that the owner cannot read plans
Respond to RFIs and submittals
Stay out of means and methods
Don't offer opinion on if a change will cost
Don't "help" subs
Don't use general notes to cover mistakes
Understand construction tolerances
Be flexible but don't yield
Research products and understand associated costs

Contractor:

Don't be optimistic
Carry contingency
Bad news doesn't get better with time
Be open and honest
Understand plans before asking questions
Stay ahead
Remember the owner has paid the designers for their time
Respect the process
Buyout in a timely manner

Suppliers:

Be open about new technology
Educate about life cycle costs, pros and cons
What are product limitations

You are a member of a team!

What I love about CSI is that all of these parties are recognized as being an equal part of that team and we strive to all work together and improve communication!

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



CSI GULF STATES REGION LEADERS – 2019-2020

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Mr. Brent Williams, CSI, CDT



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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.

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Go to www.csiknoxville.org

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