

The Construction Specifications Institute

# CSI Knoxville Chapt

Cordially Invites You and a Guest to our

# Awards Dinner, Officer Installation Ceremony, & 60th Anniversary Celebration

Please join us as we celebrate another successful year

# OUNDRY - ON THE FAIR

747 Worlds Fair Park Dr. Knoxville, TN 37902

Please join us in celebrating our 60th Anniversary in a special dinner meeting at The Foundry!



Dinner **Awards**  6:00 pm 7:00 pm

CSI Members

\$0 First-Time Guest

\$20 Returning Guest/ Non-Members

Please RSVP to csiknox@gmail.com by 12:00 pm on Monday, June 10th, 2019

ORGANIZED SEPTEMBER 1958 CHARTERED MAY

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.

# Building Knowledge Improving Project Delivery

#### **KNOXVILLE CHAPTER: JUNE 2019**

- 49 PROFESSIONAL
  - 5 EMERGING PROFESSIONAL
  - 4 STUDENT
  - 2 EMERITUS
- 2 RETIRED
- **62 TOTAL**



#### CALENDAR OF EVENTS

#### **JUNE 2019**

- O4 <u>CSI Board Meeting</u> Tuesday, June 4th, Lunch meeting from 12:00 pm - 1:00 pm Location: Lewis Group Architects 6512 Deane Hill Drive, Knoxville, TN 37919
- 11 <u>CSI Chapter 60th Anniversary Celebration and Awards Banquet</u> Tuesday, June 11th 6:00pm 9:00pm, at The Foundry on the Fair Site 747 World's Fair Park Dr., Knoxville, TN 37902 RSVP to csiknox@gmail.com
- 13 <u>ETCDC Burlington Vibe</u> Thursday, June 13th 5:00pm 9:00pm, at 3906 Martin Luther King Jr. Ave.



Join us for the 2019 ETCDC Summer Party and Tour... Burlington Vibe!

# Thursday June 13, 2019

Event begins at the Gathering Spot at Burlington Village 3906 Martin Luther King Jr. Avenue.

\$65 PER PERSON

#### Event Schedu

5.00 pm - 6.30 pm - Drinks, hors drouwns, & Silent Auction 6.00 pm - 6.15 pm - Program 6.30 pm - 8.30 pm - Tour of Historic Burlington Islant Auction from our to pussed to by 0.45 pm

#### **JULY 2019**

O6 CSI Summer Fun Party and 4th of July
Celebration - Saturday, July 6th
4:00pm - 9:00pm, at Suzan Jordan's House
1000 Fox Road, Knoxville, TN 37922

1000 Fox Road, Knoxville, IN 37922 Cell Phone: 389-9476 RSVP to <u>csiknox@gmail.com</u>

TBD <u>CSI Planning Meeting</u> - Saturday, July TBD, from 8:00 am - 12:00 pm

Location: TBD



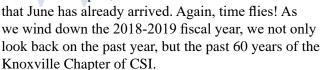


#### THE PRESIDENT'S MESSAGE

#### **JUNE NEWS!**

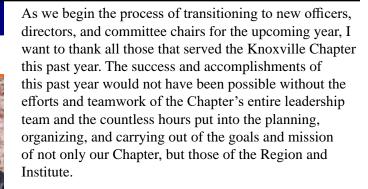
MR. R. AARON MILLER, CSI, CDT, AIA Design Innovation Architects CSI Knoxville Chapter President AMiller@dia-arch.com

Well its hard to believe that another year has come and gone for the Knoxville Chapter, not to mention



Next Tuesday, June 11th we will be gathering at the Foundry at World's Fair Park starting at 6pm to not only celebrate the successes of the past year with our annual Awards Banquet, but to also celebrate our Chapter's 60th Anniversary. We invite all current, past, active, inactive, local, regional, and national members to attend this special event and ask that all planning to attend RSVP. We have extended an invitation to all former Presidents of our Chapter to also be in attendance.

Looking back on the past year, the Knoxville Chapter has made great progress in the benefits to its membership, as well as membership growth. Since June 2018, our Chapter is the fastest growing membership and has had the most membership increase within the Gulf States Region. We look to continue this growth trend into the upcoming year ad invite anyone interested in becoming a member to our monthly Chapter meetings.



Our mission is to provide a community to communicate, collaborate, network, and educate for the advancement of the design and construction industry. We look forward to seeing you at our upcoming functions, and as always, don't forget to bring a friend!

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



#### **CSI HIGHLIGHTS**

Summary from May 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. Your chapter needs you!

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





60TH ANNIVERSARY CELEBRATION AND AWARDS TUESDAY, JUNE 11TH 6:00PM - 9:00PM AT THE FOUNDRY ON THE FAIR SITE

CSIknoxville June 2019

# HINDSIGHT

# PHOTOS FROM MAY MEETING

Photos by Ms. Stacy Flick Colbaugh, AIA, CSI, CDT scolbaugh@lewisgroup.net









# **CSI TECHNICAL**

## WHAT I LEARNED FROM CSI...

# **VEHICLE REPAIR PIT**

Mr Gary T. Bergeron, CSI Kelso-Regen Associates, Inc. CSI Knoxville Technical Chair gary@kelso-regen.com



Some of us use Jiffy Lube oil change and other vehicle repair facilities, but how many of us think about the ventilation needed in the oil change/repair pit to keep the workers from being overcome by the heat and noxious fumes? There are several guidelines, in addition to OSHA regulations, dictating ventilation requirements for a repair pit in a service garage.

It was a call from a general contractor who had followed the architectural package that did not include any HVAC or plumbing drawings. Not until the end of construction did the owner decide to add a repair pit measuring 40 inches wide, 35 feet long, and 4 feet deep to allow his workers to easily access the underside of 18 wheeler diesel trucks. The pit was equipped with two 4 inch conduits for the compressed air and lubrication lines. When the county building officials arrived to review the final construction, the new repair pit was observed.



Coated exhaust fan

According to the American Conference of Governmental Industrial Hygienists (ACGIH) Industrial Ventilation Handbook and the Unified Facility Guide Specifications (UFGS), a 500 HP diesel engine located over a repair pit requires 600 Cubic Feet per Minute (CFM) exhaust to prevent the noxious fumes from accumulating and causing ill effects to the workers; or reaching a fire hazard concentration level. The contractor asked if one of the existing four inch conduits could be used as the exhaust duct. We explained that the 600 CFM exhaust entering the four inch inlet would result in a velocity of







6,750 Feet Per Minute (FPM) and require an expensive exhaust fan with a large horsepower motor to overcome the large static pressure requirements of the four inch pipe. This 6,750 FPM velocity would also result in an objectionable noise along with the 4 inch pipe acting like a vacuum near the bottom of the pit. Instead, a 12 inch diameter exhaust duct was specified to provide a more reasonable velocity, lower fan motor horsepower, and lower the static pressure. The contractor was also forced to sawcut the concrete floor nine feet from the pit to the exterior wall and excavate down to within 12 inches of the repair pit floor.

The 12 inch diameter duct was routed from the pit, and extended up the wall. An anti-corrosion-coated and explosion-proof rated exhaust fan was specified. Noxious fumes can be corrosive to a standard duty aluminum or galvanized exhaust fan, making the coating necessary. We also advised the contractor on several other issues in the repair pit. To avoid possible spark ignition hazards, no light switches are recommended in the pit. The oil change pump should also be air driven instead of electric motor driven. The addition of a floor drain in the bottom

of the pit was suggested to aid in washing down the entire facility, but the sewer invert exiting the building was too high to allow this modification.

The next time an owner decides to reduce design costs by deleting MEP engineer drawings, it might result in a costly addition to the project.

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





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