11 - 2015



The Construction Specifications Institute



Presented By: James Rose AIA, Senior Lecturer and Adjunct Assistant Professor, Director, Institute for Smart Structures





THE KNOXVILLE CHAPTER MEETS ON THE SECOND TUESDAY OF EVERY MONTH. GUESTS ARE WELCOME!



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 the following formats: PDF, RTF, TIFF, JPEG, DWG, BMP, EPS, & DOC. Deadlines are the 25th of each month.

CSI KNOXVILLE IS A MEMBER OF THE CSI GULF STATES REGION



KNOXVILLE CHAPTER: NOVEMBER 2015

- **1** Emerging Professional
- **14 STUDENT**
- 2 EMERITUS
- 2 RETIRED

50 PROFESSIONAL

69 TOTAL



CALENDAR OF EVENTS NOVEMBER 2015

- 03 <u>CSI Board Meeting</u> Tuesday, November 3rd, 5:30 pm at Odle & Young's Office
- 10 <u>CSI Chapter Meeting</u> Tuesday, November 10th, 5:30 pm at Calhoun's on the River. "Work From Governor's Chair For Energy and Urbanism and Associated Research Studios" Presented By James Rose AIA, Senior Lecturer and Adjunct Assistant Professor and Director, Institute for Smart Structures AIA Credits: No
- 17 <u>CSI Lunch and Learn</u> Tuesday, November 17th, 11:30 am at East Tennessee Community Design Center WATE 6 Carriage House
 "Principles of Glass Selection; From Rendering to Reality" Presented By Jacob Kasbrick, Guardian Industries Corp. AIA Credits: 1.0 LU hour

DECEMBER 2015

- 01 <u>CSI Board Meeting</u> Tuesday, December 1st, 5:30 pm at Odle & Young's Office
- 15 <u>CSI Lunch and Learn</u> Tuesday, December 15th, 11:30 am at East Tennessee Community Design Center WATE 6 Carriage House Presentation By David Harig, Innotek Concrete (CEU)
- 15 <u>CSI Christmas Party</u> Tuesday, December 15th, 5:30 pm at the home of Gary & Jill Bergeron 4670 Deer Grove Way, Powell (865) 922-1265 (No Verizon cell service)

JANUARY 2016

- 05 <u>CSI Board Meeting</u> Tuesday, January 5th, 5:30 pm at Odle & Young's Office
- 12 <u>CSI Chapter Meeting</u> Tuesday, January 12th, 5:30 pm at Calhoun's on the River. Phillip Chesser, 3D printing
- 28 <u>CSI Lunch and Learn</u> Tuesday, January 28th, 11:30 am at East Tennessee Community Design Center WATE 6 Carriage House **Presentation By** Biswa Pokharel, Bhate Geos Corp. (CEU)

FEBRUARY 2016

- 02 <u>CSI Board Meeting</u> Tuesday, February 2nd, 5:30 pm at Odle & Young's Office
- 09 <u>CSI Chapter Meeting</u> Tuesday, February 9th, 5:30 pm at Calhoun's on the River. "BIM: LOD" Presented By Sherry Ault, S2A Integration

MARCH 2016

- 01 <u>CSI Board Meeting</u> Tuesday, March 1st, 5:30 pm at Odle & Young's Office
- 08 <u>CSI Chapter Product Show</u> Tuesday, March 8th, 5:30 pm at Crowne Plaza, Downtown Knoxville

THE PRESIDENT'S MESSAGE

WHAT I LEARNED FROM CSI... FIRE SPRINKLERS

Mr GARY T. BERGERON, CSI Kelso-Regen Associates, Inc. CSI Knoxville Chapter President gary@kelso-regen.com



Most of us enjoy watching Hollywood movies, but how many of us realize how many

times "dramatic license" is used to make the movie more exciting? How many building owners decide to "Value Engineer" fire sprinkler systems out of a project due to mis-information from Hollywood? As mechanical engineers, we often design fire sprinkler systems and have to inform building owners that the movies portray the fire sprinkler systems incorrectly.

Many movies show the actor applying a cigarette lighter to a fire sprinkler and the entire sprinkler system in the building starts to discharge water. This is **NOT** possible. Only the head that is directly over the fire will discharge water, and the sprinkler head will only open to water flow after the fusible link or the frangible glass bulb breaks. It will also take some time for the cigarette lighter to cause the sprinkler head frangible bulb or fusible link to react. The water flowing from the sprinkler system is often shown as clean clear water. This is also **NOT** possible. The sprinkler system water has been in black steel piping for a considerable time period. The water has been stagnant and is often black in color and has an oily residue from the pipe threading cutting machine.



Some movies also show the character pulling the fire alarm station and causing the sprinkler system to flow. This is also **NOT** possible. There is a water flow switch in the sprinkler system that does connect to the fire alarm system and will sound an alarm. But pulling the fire alarm does **NOT** cause the fire sprinklers to discharge water.

Many movies also show a dramatic car chase ending with a vehicle crashing into a fire hydrant. The fire hydrant always sprays water high into the air. This is also for dramatic effect. Most modern fire



Common contemporary sprinkler head frangible bulb temperature ratings (http://www.swiftfireprotection.com) (FIRE

(FIRE SPRINKLER... Continued on Page 4)

NOVEMBER2015

(FIRE SPRINKLER... Continued from Page 3

PRESENTATION SUMMARY

GOVERNOR'S CHAIR ENERGY + URBANISM

THE UNIVERSITY OF TENNESSEE OAK RIDGE NATIONAL LABORATORY SKIDMORE, OWINGS & MERRILL LLP

An introduction to the first Governor's Chair in the College of Architecture and Design and the first three studio collaborations between UT, SOM, and ORNL. Particular emphasis on integrating additive manufacturing into design and construction. An overview of the concept, systems and construction of the AMIE prototype.

LEARNING OBJECTIVES:

Create awareness of the Governor's Chair position and the research directions pursued in the partnership between UT, SOM, and ORNL.

Introduce the AMIE prototype (Additive Manufacturing/ Integrated Energy) and opportunities for sharing energy production and storage between a paired residence and vehicle.

Introduce innovations in building scale additive manufacturing





hydrants have a break away flange whose purpose is to break if hit by traffic and keep water from spraying everywhere. This would not happen in real life if the break-away flange was installed correctly (no more than four inches above grade). Please "tune in" next time for all of the wrong things about mechanical HVAC systems in the movies.



Fire hydrant breakaway flange (http://www.penguinbus.net)



Fire hydrant sectional view (http://patentimages.storage.googleapis.com)

csiKNOXVILLE

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Darson Buckner, CSI, CDT LEED Green Associate Dealers Warehouse Corporation DuPont Tyvek Senior Certified Weatherization Specialist 865-556-3140 darsonbuckner@hotmail.com

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SV Construction Specifications Institute





CSI AND THE LAW

November 2015

Failure to Serve Notice of Nonpayment Renders Lien Invalid

W. Paul Whitt Lewis, Thomason, King, Krieg & Waldrop, P.C. One Centre Square, Fifth Floor 620 Market Street Knoxville, TN 37902

Knoxville, IN 37902

The following article was written by **Wally Irvin** of our Nashville office and can be found on our Blog at: http://tennesseeconstructionlawyers.com/2015/08/failure-to-serve-notice-of-nonpayment-renders-lien-invalid/

The Tennessee Court of Appeals recently affirmed Tennessee's requirement that remote contractors (subcontractors, sub-subcontrators, material suppliers to a subcontractor, etc.) must serve notices of nonpayment on both the owner and prime contractor (the General Contractor).

In Diaz Construction v. Indus. Dev. Board of the Metro. Gov't of Nashville and Davidson County, a remote contractor appealed the trial court's dismissal of its lien enforcement action. Diaz, a lower-tier subcontractor, provided a notice of non-payment to the owner and the remote contractor with whom it contracted on the project. However, Diaz failed to provide the requisite notice to the prime contractor.

Tennessee law requires remote contractors to provide notice of nonpayment to the owner and the "prime contractor in contractual privity with the remote contractor." Diaz contended it satisfied this requirement by serving notice on the owner and the remote contractor with whom it contracted. The court of appeals, agreeing with the trial court, found otherwise.

The purpose of requiring notice is to allow the owner and prime contractor an opportunity to investigate and cure its subcontractor's failure to pay. Presumably, the remote contractor with whom Diaz contracted knew of its unpaid balance. In contrast, it is not as likely the prime contractor on the project knew of the payment dispute.

The court of appeals found the phrase "prime contractor in contractual privity with the remote contractor" did not mean the entity with whom the remote contractor contracted, but the prime contractor upstream of the remote contractor. By not providing a notice of nonpayment to the prime contractor, the remote contractor took away the prime contractor's opportunity to remedy the delinquency. More importantly, the failure to serve the notice of nonpayment on both the owner and the prime contractor meant the remote contractor failed to perfect its lien claim, rendering the lien invalid. Accordingly, the court of appeals affirmed the trial court's decision to dismiss the lien claim.

CSI BOARD MEETING MINUTES

By Nancy Roberts, CSI, CDT

Edited by THE SPECK Editor, Stacy Colbaugh, CSI, CDT

October 6, 2015

In Attendance:

Gary Bergeron, President Suzan Jordan, President-Elect Jim Odle, Vice President Nancy Roberts, Secretary Susan Davis, Director (2014-2016) Will Dunklin, Director (2015-2017) Geoffrey Cavalier, Academic Affairs Chair

These meeting minutes were recorded by Nancy Roberts and are outlined as follows:

The meeting was held at Odle & Young's Office and was called to order at 5:30 p.m. by Gary Bergeron. Meeting generally followed a meeting agenda prepared by Gary.

1. Previous meeting minutes (attached)

The September 1, 2015 meeting minutes had been emailed to board members by Nancy Roberts. The minutes were reviewed and approved.

2. Treasurer's report (attached)

The treasurer's report had been emailed to board members by Leslie Fawaz. In addition to tracking Scavenger Hunt donations, Leslie has been tracking the golf tournament finances.

3. President report

Gary thanked Suzan Jordan and Josh Brock for their help with the Student Scavenger Hunt. He also thanked the volunteers who offered their help. It was cancelled by Marleen Davis the day proceeding due to adverse weather forecast. Gary reported that the MetlSpan lunch and learn had 14 attendees.

4. President-Elect Report

Suzan Jordan reported that she, Kathy Proctor, Susan Davis, and Donna Covert attended CONSTRUCT in St. Louis at the end of September. Suzan reported a good show and informed the board that three of the six members which were elevated to Fellow status were from the Gulf States Region (GSR). Suzan also reminded the board that the GSR conference will be held in downtown Pensacola on April 21-24th, 2016. She mentioned several activities for the conference, namely, Little Library competition for the student chapters, T-shirt competition, continuing education classes on Friday, and CSI University on Saturday.

5. Vice President report

No report.

6. Board members/committee group reports

6.1 Member Services (membership, fun, and house) -Daniel Smith, Director: Suzan said that the fun event for the October chapter meeting would a variation on pumpkin-carving.

6.2 Education (education, programs, and special programs) - Will Dunklin, Director: Confirmed lunch and

learn programs are: October 28th for ThyssenKrup by Tim Owens (CEU); November 17th for Guardian Industries Corp. by Jacob Kasbrick (CEU); December 15th for Innotek by David Harig (CEU); and January 28th for Bhate Geos Corp. by Biswa Pokharel (CEU). The (CEU) notation for each lunch and learn refers to the continuing education credits made available for attendees. Board members were asked to forward any suggestions for programs to Jeremy Shipp or Will Dunklin. The chapter meeting programs are as follows: October 13th chapter meeting will be Mark Goulet with Nexgen (CEU). November 10th chapter meeting will be James Rose, Governor's Chair for Energy and Urbanism and associated research studios. December 15th will be Christmas party - at Gary & Jill Bergeron's home at 4670 Deer Grove Way, Powell; phone number (865) 922-1265; shuttle service from a nearby Walmart is being considered due to limited parking. January 12th chapter meeting will be Phillip Chesser speaking about 3D printing. February 9th chapter meeting will be Sherry Ault speaking about BIM. March 8th will be annual product show at Crowne Plaza.

April 12th chapter meeting will be Will Dunklin speaking about church pipe organ design. May 10th chapter meeting will be Chip O'Rear speaking about custom building products. June chapter meeting will be the annual awards banquet.

There was some suggestions about increasing attendance at chapter meetings. Geoffrey Cavalier will contact recent graduates to invite them to attend as guests. Susan Davis will contact Amy Sherrill to invite emerging professionals to attend as guests. Gary will contact Charlie Parker to invite construction science students to attend as guests.

6.3 Recognition (technical, certification, and awards) - Susan Davis, Director: BIM Levels of Development 100 through 500 begin planned by Sherry Ault for the BIM/Revit technical group; no progress since last board meeting. Suzan accepted the Outstanding Chapter Commendation (OCC) on behalf of the chapter at the CONSTRUCT conference in St. Louis.

6.4 Communications (website, publication, and liaison) - Daniel Smith, Director: Suzan regularly updates the Facebook page with chapter activities. She asked that members on Facebook share her posts on their personal timelines to get broader coverage. Tom Street is working on new chapter website. It was noted that the Speck is awesome again. Jim Odle mentioned that he is working on a memorial tribute article about Ray Guay for upcoming Speck publication.

6.5 Fundraising (product show and golf tournament) -Kathy Proctor, Director: Wes Crow submitted preliminary report stating that 60 players and 25 sponsors are participating in the October 26th annual golf tournament. To date, \$11,650 has been raised with \$5690 expenses with prospective income of \$5960.

6.6 Chapter Administration (planning, historian, bylaws, and operating guide) – Suzan Jordan, Director: Nancy

(MINUTES... Continued on Page 8) NOVEMBER2015

Construction Documents Technologist (CDT) Series

Steve C. Tubré, CSI, CCCA steve.tubre@cox.net

Your **Questions** are:

According to the AIA-A201, Article 9 Payments and Completion:

1. The contractor shall pay each subcontractor the amount he is entitled no later than ten days after receipt of payment from the owner.

True or False

2. Upon request of a subcontractor the architect will, if feasible, furnish to him payment related information on his portion of the work completed, but limit information to:

a. Owner and architect action upon the amounts requested in the application for payment.

b. Contractor stated percentage of completion.

- c. Contractor stated amount requested.
- d. All of the above.
- e. None of the above.

THESPECK 18

Roberts prepared proposed revision to bylaws in August, but has not heard anything from Institute about acceptance. It was suggested that she contact Jimmy Lail with GSR to determine status of review. Student Chapter officers are as follows: Shubhekshya (Subu) Bhandari is chapter president and has planned activities for the fall semester; Elizabeth Ott is chapter vice president. Geoffrey Cavalier is student chapter past

president and liaison to student chapter; he has accepted an intern position with Beth Eason's firm. There was also discussion about promoting CSI with the student chapter; pizza and sodas will be donated by Tyvek at the October 21st meeting; other board members are encouraged to sponsor student chapter meetings.

7. Calendar

No changes to calendar.

8. Old business

No old business.

9. New business

No new business. The meeting was adjourned at 6:30 p.m. Next board meeting will be November 3rd.



Construction Documents Technologist (CDT) Series

Steve C. Tubré, CSI, CCCA steve.tubre@cox.net

Your Answers are:

According to the AIA-A201, Article 9 Payments and Completion:

1. The contractor shall pay each subcontractor the amount he is entitled no later than ten seven days after receipt of payment from the owner. That seven-day period crops up a lot in this document! And remember, according to Paragraph § 8.1.4: "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

True or False

2. Upon request of a subcontractor the architect will, if feasible, furnish to him payment related information on his portion of the work completed, but limit information to:

a. Owner and architect action upon the amounts requested in the application for payment.b. Contractor stated percentage of

completion.

C.

- Contractor stated amount requested.
- d. All of the above.
- e. None of the above.

Please refer to the CSI's <u>Project Delivery Practice</u> <u>Guide, Construction Specifications Practice</u> <u>Guide and Construction Contract Administration</u> <u>Practice Guide</u> for industry standard knowledge, understanding and guidance for the production, use and administration of construction documents...and the resources for this weekly program.



CSI CORNER

Tell me again part 2

By Sheldon Wolfe, RA, FCSI, CCS, CCCA Greater Minneapolis-St. Paul Area

In "<u>Tell me again part 1</u>" we

looked at how proper use of reference standards can reduce



the amount of text required by making those standards part of the specifications. In "<u>Tell me</u> <u>again part 2</u>" we saw how proper use of Division 01 can eliminate repeated requirements in specification sections in other Divisions. Now let's look at redundancies found on drawings and in specifications.

One of my favorite stories showing the importance of coordination of drawings and specifications is about documents we received from a landscape architecture consultant. The number of large trees is commonly indicated on the drawings by images that can be counted; for example, large maple trees would be represented by tree stamps (or the digital equivalent), one per tree. Another way to show the quantity of trees or other vegetation is a schedule on the drawings that shows the number of plants of each type. A third method also uses a schedule, but one in a specification section rather than on the drawings. In this story, a landscape architect had used all three methods, so we had tree stamps, a schedule on the drawings, and a schedule in the specifications. Each showed a different number of maple trees. Another example of information appearing both in the specifications and on the drawings comes from structural engineers. I don't know if this is universal, but the ones I work with like to put a lot of information on their drawings. In most cases I don't have a problem with that, but the same engineers typically edit specification sections that contain some of the same information. And, as you might expect, it differs from what is shown on the drawings. Finally, elevator specifications written by elevator consultants commonly specify the number of floors, the number of stops, the

number of doors on each floor, the locations of doors, the type of door operation, and the travel distance - all of which can be ascertained from the drawings.

These three examples are fairly obvious, yet persist. Other redundancies are hidden in the many drawing notes; they repeat or conflict with information found elsewhere on the drawings, or with information in the specifications. I believe many of the problems we see come from an honest effort to make sure the job gets done correctly. Most of the time, team members don't understand how construction documents should be organized, what should go in which document, and how to state requirements; they also are not sure what other team members are doing. Each person tries to make sure everything is covered, by entering information in many places. The result is a hodgepodge of

SPECIFIERS

Will only tell you once

notes, which often disagree with each other Design professionals are justifiably concerned about contractors' ability to coordinate subcontractors; they should be just as concerned about coordinating the location and format of the information that appears in the contract documents.

© 2015, Sheldon Wolfe, RA, FCSI, CCS, CCCA, CSC

Agree? Disagree? Leave your comments at http://swconstructivethoughts.blogspot.com/







CSI LUNCH & LEARN: PRINCIPLES OF GLASS SELECTION; FROM RENDERING TO REALITY

PRESENTED BY JACOB KASBRICK, GUARDIAN INDUSTRIES CORP.

TUESDAY, NOVEMBER 17TH, 2015 Lunch & Networking: 11:30 A.M. – 12:00 p.m.

PRESENTATION: 12:00 P.M. - 1:00 P.M.



Hello CSI Knoxville Members:

CSI Knoxville Chapter continues to offer you another learning opportunity **"Principles of Glass Selection; From Rendering to Reality"** provided by Jacob Kasbrick, Guardian Industries Corp.

Learning Objectives:

This program discusses the foundations of the glass selection process and explores the aesthetic options available to meet project design and performance requirements. In addition, there is a special focus on understanding the variety of performance coatings and customized glass fabrication options.

Please relay this invitation to any and all interested parties especially those in your work place. This is a great opportunity to network and learn something new as well as an opportunity to introduce your guest to CSI. We welcome your attendance! WHERE: East Tennessee Community Design Center WATE 6 Carriage House 1300 N. Broadway, Knoxville, TN 37917

PARKING: You should be able to find a parking space in the WATE parking lot. There also may be parking spaces available along Luttrell St.

AIA CEU: 1.0 HSW and Sustainable Design credit.

RSVP: Seating is limited, if you wish to participate, please respond to Jeremy Shipp at <u>shipp.arc@gmail.</u> <u>com</u> with your name, email, and phone by 3:00 pm on Monday, November 16th.

Jacob Kasbrick

Guardian Industries Corp. Architectural & Design Manager Gulf South Region (AL, LA, MS, TN) Cell: (615) 653-0430 jkasbrick@guardian.com

KANSAS STATE UNIVERSITY - OLATHE

www.sunguardglass.com www.guardianinglass.com

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