



THE SPECK

The Construction Specifications Institute

CSI KNOXVILLE CHAPTER MEETING TUESDAY, OCTOBER 13TH, 2015 *INSULATING COATINGS POWERED BY AEROGEL PARTICLES*

Presented By: Mark Goulet, NexGen Coating Resources, Inc.



**1 HR
HSW
PDH**

CALHOUN'S ON THE TENNESSEE RIVER

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

Our evening 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.



Social	5:30 pm
Dinner	6:00 pm
Seminar	7:00 pm
\$0	CSI Members
\$0	First-Time Guest
\$20	Returning Guest/ Non-Members

Please RSVP to csiknox@gmail.com by Monday, October 12th, 2015

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

CALENDAR OF EVENTS

OCTOBER 2015

- 06 **CSI Board Meeting** - Tuesday, October 6th, 5:30 pm at Odle & Young's Office
- 13 **CSI Chapter Meeting** - Tuesday, October 13th, 5:30 pm at Calhoun's on the River.
"Insulating Coatings Powered By Aerogel Particles" Presented By **Mark Goulet, NexGen Coating Resources, Inc.** AIA Credits: 1.0 LU/HSW, 1.0 PDH
- 28 **CSI Lunch and Learn** - Wednesday, October 28th, 11:30 am at East Tennessee Community Design Center WATE 6 Carriage House
"Low-Rise Machine Room-Less Elevators" Presented By **Tim Owens, ThyssenKrupp Elevator Americas** AIA Credits: 1.0 LU hour

NOVEMBER 2015

- 03 **CSI Board Meeting** - Tuesday, November 3rd, 5:30 pm at Odle & Young's Office
- 10 **CSI Chapter Meeting** - 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 **CSI Lunch and Learn** - 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

- 03 **CSI Board Meeting** - Tuesday, December 1st, 5:30 pm at Odle & Young's Office
- 15 **CSI Lunch and Learn** - Tuesday, December 15th, 11:30 am at East Tennessee Community Design Center WATE 6 Carriage House
David Harig, Innotek Concrete (CEU)
- 15 **CSI Christmas Party** - 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 **CSI Board Meeting** - Tuesday, December 1st, 5:30 pm at Odle & Young's Office
- 12 **CSI Chapter Meeting** - Tuesday, January 12th, 5:30 pm at Calhoun's on the River. **Phillip Chesser, 3D printing**



KNOXVILLE CHAPTER: OCTOBER 2015

- 1 EMERGING PROFESSIONAL
- 15 STUDENT
- 2 EMERITUS
- 2 RETIRED
- 48 PROFESSIONAL
- 68 TOTAL**



THE PRESIDENT'S MESSAGE

WHAT I LEARNED FROM CSI... GREASE INTERCEPTORS

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



Most of us enjoy a juicy hamburger, steak, bacon, or rotisserie chicken. That juice is usually Fat, Oil or Grease (FOG) as it is known to plumbing engineers and sewer utility companies. Some of us use dishwashing soap and hot water in our home kitchen and wash the FOG off of the cooking pan and dump it down the drain.... Some Knoxville area residents may recall that several Market Square restaurants closed due to new grease interceptor requirements.

WARNING:
 DON'T READ THE REST OF THIS COLUMN DURING LUNCH!!

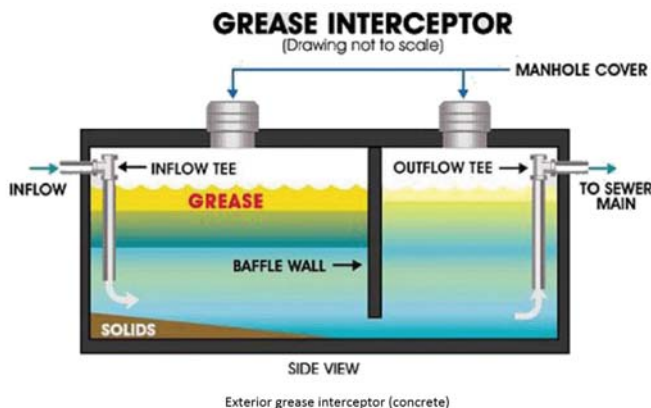
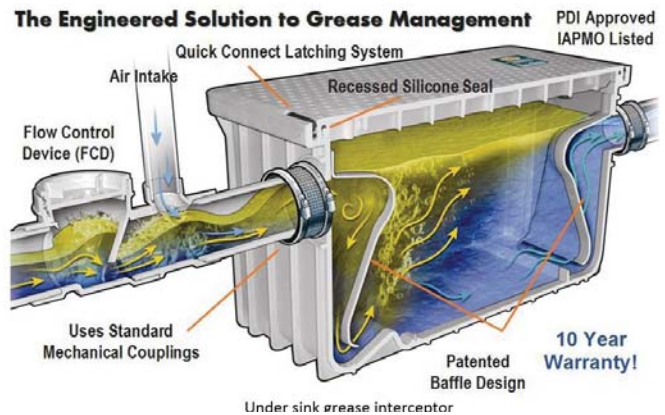
BUT in commercial restaurants, the volume of FOG that goes down the drain makes mixing a little soap and hot water with the FOG impractical. The local sewer utility company has to process all of the waste that we dump down the drain. The FOG will separate from the waste stream, cool, and then solidify on the interior walls of the sewer pipes. Those solids impede the normal waste flow and the buildup can completely clog the sewer pipes. Cleaning the municipal sewer lines is not easy and is a significant cost in labor, equipment and materials.

Most utility districts have a FOG control policy. They require any food establishment to install a grease

interceptor to “catch” the grease before it enters the municipal sewer system. These devices can be as small as a unit under the three compartment sink, or a large concrete or fiberglass basin behind the building with several manholes. Most of the grease interceptors use a two basin system with a baffle separating the inlet and outlet chambers. Please see the diagrams below for how these devices work.



Exterior concrete grease interceptor installation



Grease clogged sewer line

(GREASE INTERCEPTOR... Continued on Page 4)

PRESENTATION SUMMARY

(GREASE INTERCEPTOR... Continued from Page 3)

Insulating Coatings Powered By Aerogel Particles Mark Goulet, NexGen Coating Resources, Inc. AIA Credits: 1.0 LU/HSW, 1.0 PDH

I will highlight combating corrosion under insulation, spray applied coatings for thermal breaks in architectural design, and safe touch in high heat applications.



Course Description

This program will give the participant an understanding of the best insulating solid in the world, aerogel. Within the last couple of years, aerogel particles were formulated in high performance coatings. This formulation breakthrough greatly enhances the thermal efficiency of insulation coatings, thus making them an attractive option for a wide range of applications. This presentation will compare aerogel particles to traditional insulation fillers such as ceramic beads, and also identify the applications where aerogel coatings can save the end user / owner time and money.

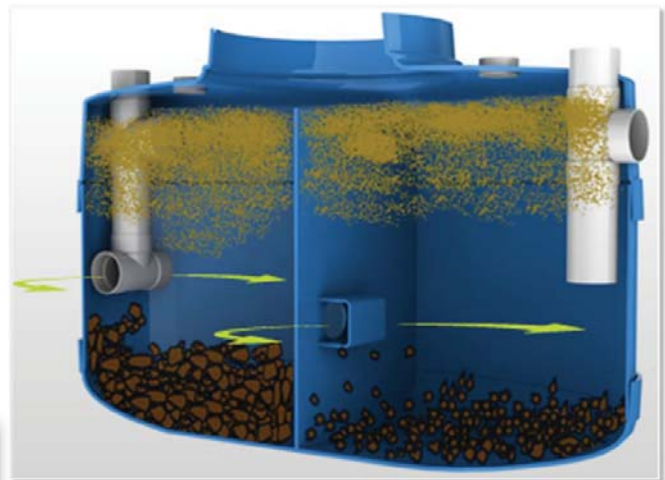
This course is worth: 1.0 LU / HSW / SD

Tnemec Company, Inc. is a Registered Provider with The American Institute of Architects Continuing Education Systems. Credit earned on completion of this program will be reported to CES Records for AIA members. Certificates of Completion for non-AIA members are available on request.

This program is registered with the AIA/CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product. Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.



Some utility companies use an Environmental Protection Agency (EPA) spreadsheet to determine the size of interceptor required. The spreadsheet includes the number and size of the plumbing fixtures, floor drains, and dishwasher size that are receiving FOG along with the number of seats in the restaurant. The calculation also includes a sizing factor for fast food, dine-in, cafeteria and food production facilities. There are also some utility companies that use their own sizing calculation form that does not compare to the EPA spreadsheet.



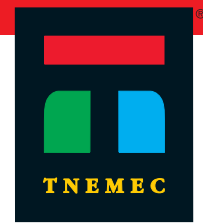
Exterior grease interceptor (fiberglass)

Other utility companies will not allow “under sink interceptors” because they have to be serviced more frequently and often pass FOG into the sewer system. Some utility companies also have a minimum size interceptor allowed. None of the interceptors function as designed unless they are pumped out regularly. Most people do not want to be near the pump truck when the interceptors are pumped out. If you think spoiled milk smells bad, a grease interceptor being pumped out can be significantly worse.

This concludes a technical article that will be published in the Gulf States Region in the near future.

Gary T. Bergeron
Principal & Co-Owner
Kelso-Regen Associates, Inc.
CSI Knoxville President





CEU SUMMARY

INSULATING COATINGS

POWERED BY AEROGEL PARTICLES

PROGRAM DESCRIPTION:

Aerogel is widely recognized as the best insulating solid in the world. It has been around in blanket insulation form for quite some time, but just within the last couple of years aerogel particles started being formulated in high performance coatings. This formulation breakthrough greatly enhances the thermal efficiency of insulation coatings, thus making them an attractive option for a wide range of applications. This presentation will compare aerogel particles to traditional insulation fillers such as ceramic beads, and also identify the markets where aerogel coatings can save the owner / end user time and money.

LEARNING OBJECTIVES:

- Provide an overview of insulation coatings and the different insulating fillers used in these coatings.
- Explain why aerogel particles in a coating formulation is so unique.
- Identify some key markets where aerogel insulation coatings are a good fit.
- Demonstrate the versatility of aerogel coatings through case histories.

PRESENTER QUALIFICATIONS:

All Tnemec continuing education presenters have been trained on AIA/CES and NCEES RCEPP guidelines. In addition, they receive continuous in-depth field training and are considered industry experts.

PROVIDER: Tnemec Company, Inc

PROGRAM #: TNE013

PROGRAM: Insulating Coatings Powered By Aerogel Particles


LENGTH: 1 Hour

CREDIT: 1.0 LU/HSW, 1.0 PDH

METHOD: Live Instruction

For more information or to register for this program, contact your local Tnemec representatives or:

Alexia Cominsky
Tnemec Company, Inc.
6800 Corporate Drive
Kansas City, MO 64120
816-326-4218
cominsky@tnemec.com



If it's worth building,
it's worth protecting.

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

The forecast calls for Tyvek®.

Nothing threatens the structural integrity of a building like unwanted water and moisture. That's why intelligent moisture management is so critical to sound design and construction. And why more architects now protect their projects with DuPont™ Tyvek® CommercialWrap®.

Tyvek® CommercialWrap® was engineered specifically to help protect exterior wall systems in today's higher-value light commercial construction. It's up to 300% better at bulk water holdout than conventional building papers. And because Tyvek® breathes, it helps allow moisture vapor molecules to escape the wall cavity. So walls stay dryer.

You can't do anything about the weather. But you can prepare for it, with Tyvek®. Find out more at 1-800-44-TYVEK® or www.TYVEK.com.

© Copyright 2003 E.I. du Pont de Nemours and Company. Tyvek® is a registered trademark of DuPont for its brand of protective material. All rights reserved.

**Tougher, stronger,
higher-performance**

DuPont™
Tyvek®
COMMERCIALWRAP®

DU PONT

The miracles of science™



NATIONAL NEWS

UNDERSTANDING WINDOW U-FACTOR

By Tom Herron,
LEED Green Associate



Windows account for 40 percent of a building's energy loss, and with energy costs and public demand for efficient buildings on the rise, using proven tactics to lessen this loss has become more important than ever. Finding the best materials to contribute to a building's performance targets is essential, but knowing which products will actually shrink the envelope's energy footprint can be daunting. When it comes to windows, U-factor is a key figure to consider and comes standard on all National Fenestration Rating Council (NFRC) labels.

U-factor indicates how much heat will be lost from a building through its windows by specifying how many BTUs can pass through one square foot of material in an hour. Most windows today have U-factors between 0.15 and 1.20, which NFRC-certified labs calculate using thermal measurements from the center and edges of the glass, the frame and along any dividers the window may have. In other words, whole product performance. The different measurements capture the total impact of the numerous components of a window, including glazing, gas fills, spacers, frames, weather stripping and sealants.

When considering a fenestration product, "window shoppers" should look for the NFRC label, which provides U-factor data, along with information for solar heat gain, visible transmittance and air leakage. Like the miles-per-gallon sticker on a car, the NFRC label – which can be affixed to the glass of all certified residential products or on a separate label certificate in the case of products in commercial applications – gives reliable, unbiased performance data to

help architects, builders and even homeowners determine whether a product will meet their energy efficiency needs. While NFRC does not recommend target U-factor values, the Efficient Windows Collaborative gives suggested thresholds based on climate zones:

□ Northern states: 0.35 or less

□ North Central or South Central states: 0.40 or less

□ Southern states: 0.60 or less

The ENERGY STAR® program, which relies on NFRC ratings to determine product eligibility, uses even stricter limits:

□ Northern, North Central and South Central states: 0.30 or less

□ Southern states: 0.40 or less.

Since NFRC began rating fenestration products more than 25 years ago, the program has helped to foster a 50 percent reduction in the average U-factor of certified products, a trend that has helped lower U.S. per-capita energy consumption to pre-1970 levels. As state and federal energy policies and building codes evolve, window manufacturers and builders will continue to find innovative solutions to curb window energy loss, helping to save Americans some of the \$40 billion lost each year – and to significantly reduce the production of associated greenhouse gas emissions. For more information about U-factor and window energy performance, visit www.nfrc.org.



 National Fenestration Rating Council® CERTIFIED	World's Best Window Co. Millennium 2000+ Vinyl-Clad Wood Frame Double Glazing • Argon Fill • Low E Product Type: Vertical Slider
ENERGY PERFORMANCE RATINGS	
U-Factor (U.S./I-P) 0.30	Solar Heat Gain Coefficient 0.30
ADDITIONAL PERFORMANCE RATINGS	
Visible Transmittance 0.51	Air Leakage (U.S./I-P) 0.2
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org</small>	

Tom Herron is NFRC's Director of Communications and Marketing. He holds the Vice Chair position on the Board of Directors for the Sustainable Buildings Industry Council and serves on the U.S. Green Building Council's Educational Outreach and Programs Committees.

Tom has 25 years of experience in the communications field, including five as a newspaper reporter. He is the recipient of 1994 Excellence in Journalism award for the Maryland Chapter of the Society of Professional Journalists and is a member of the Phi Kappa Phi and Lambda Pi Eta honor societies.

Tom is also a LEED Green Associate and holds an MBA from the University of Maryland.



LEWIS THOMASON

CSI AND THE LAW

October 2015

False Claims Act Liability Doesn't Stop on the Whistle

W. Paul Whitt

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

The following article was written by **Wally Irvin** of our Nashville office and can be found on our Blog at: <http://tennesseconstructionlawyers.com/2015/08/false-claims-act-liability-doesnt-stop-on-the-whistle/>

Failing to ensure certified payrolls are correct led to a contractor owing three times the amount paid by the government under a construction contract. The False Claims Act (“FCA”) imposes liability on persons and companies that defraud the government. Under the FCA, a “whistleblower,” frequently a current or former employee, may file a lawsuit on behalf of the government when someone fraudulently receives money from the government. Although many claims under the FCA arise from healthcare and military spending programs, claims may also arise in the construction industry, as a contractor on a Tennessee army base learned the hard way. The contractor had a contract with the army to construct various buildings on one of the army’s facilities. The contract between the army and the contractor contained a provision requiring the contractor to submit certified payrolls, to show that all workers were paid the prevailing wage for each employee’s particular trade. To complete the contract, the contractor retained an electrical subcontractor. However, the contractor failed to include the subcontractor’s electrical employees in its certified payrolls during the first two years of the project and did not verify its subcontractor’s certifications for the remainder of the project. Unfortunately, the subcontractor did not pay its electrical employees the applicable prevailing wage. An employee brought an action on behalf of the United States alleging the contractor falsely certified payrolls on the project. Ultimately, the court found the contractor wrongly certified that prevailing wages were paid on the project in violation of the FCA in the total amount of \$254,298.18.

Importantly, the FCA contains a provision that trebles damages, regardless of whether the amount paid by the government is purely cost to the contractor or includes the contractor’s overhead and profit. A contractor is not provided any credit for the value of work put into place or any amount paid by the government for the applicable portion of work. Accordingly, the court found the contractor liable for \$762,894.54.

As the contractor learned, it is imperative to maintain diligent records and ensure that all employees, including those of subcontractors, are paid appropriately on federal projects. A contractor’s failure to do so will see liability start, not stop, with a whistle(blower).

United States of America *ex rel.* Brian Wall v. Circle C Construction, LLC, No. 3:07-cv-91 (M.D. Tenn. Aug. 2, 2014)

LEWIS THOMASON

KING KRIEG & WALDROP P.C.

2015 Annual Construction Law Seminar



SUBCONTRACTORS: In the Legal Trenches

OCTOBER 16, 2015

Check In: 8:30 a.m. Time: 9:00 a.m. - 1:00 p.m.

Registration Fee:

\$30.00 Includes Seminar and Lunch
\$25.00 for Each Additional Company
Attendee Registration

Registration Deadline:

October 12, 2015

Featuring Lunch Guest Speaker:

JIMMY HYAMS | WNML Sports Radio

Contact for Questions:

MARTI MERRELL | LEWIS THOMASON
Phone: (865) 546-4646

Half-Day Seminar and Lunch Location:

FOX DEN COUNTRY CLUB

12284 North Fox Den Drive | Knoxville, Tennessee

LEARN ABOUT:

SECURE

Getting Paid

DOCUMENT

A Project – What To Say/Not Say

LEARN

From Other Project Mistakes

EMPLOYERS

Dos and Don'ts

INSURANCE

Are You Covered?

Speakers:



DAVID A. DRAPER, ESQ.
Project Insurance – Are you Covered?



PRESTON HAWKINS, ESQ.
Getting Paid in the Trenches



CHRIS W. MCCARTY, ESQ.
Employment in the Trenches



W. PAUL WHITT, ESQ.
Lessons from the Trenches

CSI BOARD MEETING MINUTES

By Nancy Roberts, CSI, CDT

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

September 1, 2015

In Attendance:

Gary Bergeron, President

Suzan Jordan, President-Elect

Jim Odle, Vice President

Samer Shatara, Director (2014-2016)

Will Dunklin, Director (2015-2017)

Kathy Proctor, Director (2015-2017)

Jim Vineyard, Director (2015-2017)

Geoffrey Cavalier, Academic Affairs Chair

These meeting minutes were recorded by Kathy Proctor 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 August 4, 2015 meeting minutes had been emailed to board members by Nancy Roberts. The minutes were reviewed and approved as corrected. Revisions to the previous meeting minutes are noted in bold italics.

2. Treasurer's report (attached)

The treasurer's report had been emailed to board members by Leslie Fawaz.

3. President report

Gary thanked everyone for "pinch hitting" last month when he could not attend the board meeting. Scavenger Hunt is scheduled for September 26th at 9 a.m.; plans with donor list is ongoing. Geoffrey Cavalier will coordinate with Subu Bhandari, UTK Student Chapter President, and provide assistance as needed. To date, ten (10) volunteers have registered from CSI; Marleen Davis is working to obtain ten (10) volunteers. The FSA lunch and learn had 20 attendees.

4. President-Elect Report

Suzan Jordan reported that she, Kathy Proctor, Susan Davis, and Donna Covert would be attending CONSTRUCT in St. Louis at the end of September.

5. Vice President report

No report.

6. Board members/committee group reports

6.1 Member Services (membership, fun, and house) – Daniel Smith, Director: Biswa Pokharel, geotechnical engineer, as joined the chapter. Suzan was thanked for providing another fun event at the meeting.

6.2 Education (education, programs, and special programs) –

Will Dunklin, Director: Confirmed lunch and learn programs are: September 23rd for MetlSpan by Mike Weaver (CEU); 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. The chapter meeting programs are as follows: September chapter meeting program will be Dr. William Miller, an ORNL research scientist and University of Tennessee Art & Architecture faculty member. October chapter meeting will be Mark Goulet with Nexgen (CEU), as well as announcement of Scavenger Hunt awardees. November chapter meeting will be James Rose, Governor's Chair for Energy and Urbanism and associated research studios. December 8th will be Christmas party – tentative location at Gary & Jill's home in Powell. January chapter meeting will be Phillip Chesser speaking about 3D printing. February chapter meeting will be Sherry Ault speaking about BIM. March 8th will be annual product show at Crowne Plaza. April chapter meeting will be Will Dunklin speaking about church pipe organ design. Gary listed special programs as Knoxville STEM Academy Mentorship.

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. Suzan will accept the Outstanding Chapter Commendation (OCC) on behalf of the chapter at the CONSTRUCT conference in St. Louis. It was noted that all four Tennessee chapters were awarded OCC.

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. Suzan informed board that Institute will be phasing out its support of satellite website and she presented a proposal to build our own site and manage it. She presented a proposal from Tom Street to build the site. There was a motion to accept the proposal and motion passed. It was noted that the Speck is awesome again.

6.5 Fundraising (product show and golf tournament) – Kathy Proctor, Director: It was reported that the product show has a Facebook page. Wes Crow and Josh Brock need help soliciting sponsors for the October 26th golf tournament. Josh will send information to distribute.

6.6 Chapter Administration (planning, historian, bylaws, and operating guide) – Suzan Jordan, Director: Kathy sent the updated the leader roster to newsletter editor for publication. Nancy Roberts prepared proposed revision to bylaws to align with CSI Institute; updated bylaws were submitted to governance@csinet.org on August 11th.

6.7 Student Chapter officers are as follows: Shubhekshya (Subu) Bhandari is chapter president and already planning

(MINUTES... Continued on Page 12)

CSI CORNER

TELL ME AGAIN PART 2

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



In "Tell me again part 1" we looked at how proper use of reference standards can reduce the amount of text required by making those standards part of the specifications. Going back to the "say it once" principal, proper use of Division 00 and Division 01 can go a long way toward eliminating needless text.

In the good old days, it was common to include at the beginning of every specification section a statement similar to this: "Drawings and General Provisions of the Contract, including General and Supplementary Conditions and Division - 1 Specification Sections, apply to this Section."

CSI's Manual of Practice, Product Resource Manual, and Construction Specifications Practice Guide explain how to eliminate this statement:

Although the Division 01 role in governing the work has been accepted in practice for many years, this authority is not explicitly stated in either the AIA or EJDC general conditions. Until that change is made, the authority should be established by a provision in the supplementary conditions as follows: Sections of Division 01-General Requirements govern the work of all sections of the specifications.

Even though the A201 and other general conditions make it quite clear that the contractor is responsible for means and methods, I expand this statement to read, Sections of Division 01-General Requirements govern the work of all sections of the specifications. The Contractor shall ensure that all Subcontractors, Sub-subcontractors, and suppliers are aware of and comply with the provisions of Division 01.

Having established the role of Division 01, there is no need to restate it in every specification section. The A201 agrees with that position, stating "The Contract Documents are complementary, and what is required by one shall be as binding as if required by all." Other general conditions typically have similar statements. Interestingly, while some specifications have followed CSI's advice and deleted the "Drawings and General Provisions..." paragraph, many specifications now have added several more needless references to Division 01 such as these:

- Conduct pre-installation meeting in accordance with Division 01 Section 01 31 19.
- Submit in accordance with Division 01, Section 01 33 00

- Comply with requirements of Section 01 65 00 and Section 01 66 00.
- Comply with provisions of Section 01 78 00.
- Substitutions: Under provisions of Section 01 25 00
- Examine conditions and proceed with work in accordance with Division 01, Section 01 71 00.
- General: Comply with requirements of Division 01, Section 01 45 13.

"Well, I just want to help people find what they're looking for!" Following that logic, why stop there? Why not include references to information about taxes, or contract modifications, or final payment in each section? Division 01 can save a lot more text than that found in the above references. Properly written, they can minimize or eliminate many statements commonly found in specifications. One of the most important requirements, with the widest applicability, is "Follow manufacturer's instructions and recommendations." The drawback with relying on manufacturers' instructions is that they might miss something, or you might choose to specify more restrictive requirements. In those cases, Division 01 sections can reduce the need



for many statements in the specification sections. For example, consider the article for delivery, storage, and handling. Most materials should be protected from the elements until they are installed. A comprehensive Section 01-6000 - Product Requirements can include storage requirements such as temperature range, humidity, and protection from moisture, that are suitable for all but a few products. Add the basic requirement for complying with manufacturers' instructions, and there isn't much left to say. Do the same for packaging, labeling, and handling, then go on to other subjects of Division 01 sections, and you may find you can delete some of the standard articles in the specifications. Another place to look for redundancies is the "Common Work Results" sections found in mechanical and electrical specifications. These sections often state requirements already found in the general conditions, in bidding requirements, and in Division 01 sections. The only time those subjects should be addressed is when mechanical and electrical specifications have additional or unique requirements, and even then I would try to take care of the differences in Division 00 and in Division 01.

I have looked at many of these sections at the beginning of mechanical and electrical Divisions, and rarely have I found anything not already specified in the front end of

(TELL ME AGAIN... Continued on Page 12)

the project manual. At best they are merely redundant; most of the time they are contradictory.

We spend a lot of time talking about Division 01, but it's also worth taking a look at what's in the general conditions. I have seen many specifications that discuss payment for testing, for re-inspection, for concealing work before it was inspected, for unauthorized work, and for similar activities. These typically are covered in the general conditions; in the A201, they are found in Articles 12 and 13.

Why are we so concerned about redundancies? Perhaps the biggest problem is that when different people state the same thing they may do it differently. Another problem, which isn't so obvious, is that the longer the specifications are, the longer it takes to read them, and the more likely that things will be missed. Why add a lot of unnecessary text, making it harder for the contractor to understand?

Shorter specs are more likely to be read, will be easier to read, and will be easier to interpret.

© 2015, Sheldon Wolfe, RA, FCSI, CCS, CCCA, CSC
 Agree? Disagree? Leave your comments at <http://swconstructivethoughts.blogspot.com/>

coming school year activities; 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.

7. Calendar

No changes to calendar.

8. Old business

Scavenger Hunt – general discussion about upcoming event.

9. New business

Will Dunklin suggested an interesting fundraising activity – a Scavenger Hunt for Adults focused on Jack Neely and the history of Knoxville.

The meeting was adjourned at 6:30 p.m. Next board meeting will be October 6th.



CSI is a must for any professional involved in designing, supplying, building, negotiating, planning, contracting or any other function in the construction-building industry. CSI members bring real world solutions to this ever-changing climate. Learn more about our different membership types, discounts, resources, and educational opportunities.

Becoming a CSI member gives you a wealth of benefits, including construction industry news and resources, standards and formats, networking opportunities, webinars, events, and member discounts.

Member Types

\$250 - Professional: You author, manage, or communicate building information; to create,

interpret, or use construction documents; or to educate, support, or assist the construction industry.

\$125 - Emerging Professional: You have less than three years experience.

\$30 - Student: You are a full-time student in a construction-related curriculum.

Join now! Questions? Contact CSI at csi@csinet.org, www.csinet.org/FAQ or 800-689-2900 (M-F, 9-5P, EDT)



CSI LUNCH & LEARN: LOW-RISE MACHINE ROOM-LESS ELEVATORS

PRESENTED BY TIM OWENS, THYSSENKRUPP ELEVATOR

WEDNESDAY, OCTOBER 28TH, 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 “**Low-Rise Machine Room-Less Elevators**” provided by Tim Owens, ThyssenKrupp Elevator

Description: This class will give attendees an overview of what a low-rise elevator is, the evolution of the machine room and more detailed information regarding the different types of MRL's.

Learning Objectives:

1. This section will detail what exactly a "low-rise" elevator is and the factors that are used to describe this type of elevator.
2. This section will explain the different types of machine room configurations currently in existence and the differences between what some call machine room-less and what it really means.
3. Traction and Hydraulic Machine Room- Less Overview. Detailed overview of the sections of the Traction MRL: different machine supports, cable deflection, overhead and pit requirements, counterweights and rails, as well as limitations of cab finishes and the Hydraulic MRL: machine and jack configuration, hydraulic fluid, overhead and pit requirements.
4. Direct comparison of Low-Rise MRL Elevators: overhead and pit depths, speed, cab finishes, noise and ride quality, LCA, LCC and EPD, and energy usage.

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 LU hour

RSVP: Seating is limited, if you wish to participate, please respond to Jeremy Shipp at shipp.arc@gmail.com with your name, email, and phone by 3:00 pm on Monday, October 26th.





The American Institute of Architects Continuing Education Systems AIA/CES Registered Provider Program Summary Handout

Provider: ThyssenKrupp Elevator

Length: 1.0 hour

Program #: TKE002

Credits: 1.0 LU hour

Program: Low-Rise Machine Room-Less Elevators

HSW: Yes

Description: This class will give attendees an overview of what a low-rise elevator is, the evolution of the machine room and more detailed information regarding the different types of MRL's.

Learning Objectives: After completion of this course, participants will:

1. This section will detail what exactly a "low-rise" elevator is and the factors that are used to describe this type of elevator.
2. This section will explain the different types of machine room configurations currently in existence and the differences between what some call machine room-less and what it really means.
3. Traction and Hydraulic Machine Room-Less Overview. Detailed overview of the sections of the Traction MRL: different machine supports, cable deflection, overhead and pit requirements, counterweights and rails, as well as limitations of cab finishes and the Hydraulic MRL: machine and jack configuration, hydraulic fluid, overhead and pit requirements.
4. Direct comparison of Low-Rise MRL Elevators: overhead and pit depths, speed, cab finishes, noise and ride quality, LCA, LCC and EPD, and energy usage.

Target Audience: Architects and specifiers. This program is basic and meets the needs of professionals at every experience level.

How Taught: The TKE facilitators will utilize a PowerPoint Presentation at architectural firms, chapter meetings, AIA and CSI trade shows. Seminars are open for audience participation with questions and discussions during the course.

Facilitator Qualifications: TKE's facilitators have received training in this program. In addition, they receive continuous training in the industry, and are considered industry experts to provide the necessary information and answer basic questions.

Costs: There is no cost to bring this program into your firm.

A/V Needs: Electric for PC and LCD projector for PowerPoint Presentation. Audio system needed only in very large groups.

For more information: www.thyssenkruppelevator.com

CSI Lunch and Learn

Wednesday, October 28th at
11:30 pm at East Tennessee
Community Design Center WATE
6 Carriage House

"Low-Rise Machine Room-
Less Elevators " By Tim Owens ,
ThyssenKrupp Elevator Americas
AIA Credits: 1.0 LU hour



Presents

A Continuing Education Event

Free Event
7 Hour HSW/ AIA CEU's Class

Vendors Presenting:

- 9:00 - 9:30 Welcome Reception
- 9:30 - 10:30 COX "What's new in pressure treated lumber"
- 10:30 - 11:30 Simpson Strong Tie
- 11:30 - 12:30 Lunch/ TYVEK
- 12:30 - 1:30 Fortress Railing
- 1:30 - 2:30 Miratec Trim
- 2:30 - 3:30 Architectural Windows
- 3:30 - 4:30 Neuma Doors ** New Course**

Date:

October 13th, 2015

Location:

Bass Pro Shop
3623 Outdoor Sportsman Place
"117 Top Flite Drive"
Kodak, TN

RSVP:

<http://cox2015classkodak.eventbrite.com>



DuraPine

Kelly Phillips
803-614-1355

CSI GULF STATES REGION LEADERS – 2015-2016

President Mr James Bagley, CSI, CCS, AIA
Goodwyn, Mills & Cawood, Inc.
2660 Eastchase Ln Ste 200
Montgomery, AL 36117-7024
james.bagley@gmcnetwork.com
334-271-3200

Vice President Thomas Ferguson, CSI, CCCA
InterBay Building Services, Inc.
7552 Navarre Pkwy Unit 44-A
Navarre, FL 32566-7309
tom@interbay.co
850-936-8186

Secretary Suzan Jordan, CSI, CDT
1000 Fox Rd
Knoxville, TN 37922-4125
suzanwjordan@icloud.com
865-389-9476

Treasurer Amy Fleming, CSI, CDT
Triad Corporation
1007 E Main St
Chattanooga, TN 37408-1526
afleming@triad-elec.com
423-267-2288

Membership Chair William Sundquist, CSI
Whitacre Greer
7813 Laurelton Dr
Chattanooga, TN 37421-1954
wsundquist@wgpaver.com

Certification Chair Mr. Christopher Young, CCS
Blitch Knevel Architects, LLC
757 Saint Charles Ave
New Orleans, LA 70130-3780
cjy@blitchknevel.com
504-524-4634

Technical Chair Mr Gary Bergeron, CSI
Kelso-Regen Associates, Inc.
201 Sherlake Ln Ste 101
Knoxville, TN 37922-2376
gary@kelso-regen.com
865-588-5348

Product Show Chair Mr. Floyd Sterling, CSI, CDT
Shreve Land Construction Company
624 Travis St Ste 100
Shreveport, LA 71101-3020
fsterling@shreveland.com
318-226-0056

Planning Chair Mr. Bruce Martin, CSI, CDT, RCC
Dillard Construction Company
2631 Rhea County Hwy
Dayton, TN 37321-5816
bmartin@dillardconstruction.com
423-775-1793



*Building Knowledge
Improving Project Delivery*



Academic Liaison Kent Kile, CSI, CCPR
PPG Paints
1113 Sydney Ter
Mount Juliet, TN 37122-7566
kkile@ppg.com
615-347-4572

Academic Liaison M. Keith West, CSI, CCPR
West Architectural Specialties
291 Highway 51 Ste E6
Ridgeland, MS 39157-3937
keith@westarchspec.net
601-853-9908

Electronic Comm. Andrew Murray Jr., CSI, CDT
Canizaro Cawthon Davis
129 S President St
Jackson, MS 39201-3605
jmurray@ccdarchitects.com
601-948-7337

Immediate Past President William Sundquist, CSI
Whitacre Greer
7813 Laurelton Dr
Chattanooga, TN 37421-1954
wsundquist@wgpaver.com

Chair Thomas Ferguson, CSI, CCCA
InterBay Building Services, Inc.
7552 Navarre Pkwy Unit 44-A
Navarre, FL 32566-7309
tom@interbay.co
850-936-8186

Chair Cindi Brooks, CSI, CDT
Mid South Prestress, LLC
2949 Joe Dowlen Road
Pleasant View, TN 37146
cindibrooksgsr@gmail.com
615-746-6606

Chair Robert Swan, CSI, CCS, CCCA, AIA, SCIP
Construction Document
Consultants, LLC
4849 Laurel St
New Orleans, LA 70115-1649
rob Swan@gmail.com
504-717-8244

Director Mr Jimmy Lail, CSI
Raines Brothers, Inc.
1040 E Main St
Chattanooga, TN 37408-1540
jimmy@rainesbrothersinc.com
423-468-2029

Finance Chair Randall Lewis, CSI, AIA
J H & H Architects, PA
1047 N Flowood Dr
Flowood, MS 39232-9533
rlewis@jhharchitects.com
601-948-4601

KNOXVILLE CHAPTER CSI LEADERS – 2015-2016



OFFICERS

President	Gary Bergeron	gary@kelso-regen.com	865-748-6304
President - Elect	Suzan Jordan	iamswj@yahoo.com	865-389-9476
Vice-President	Jim Odle	j.odle.oyarch@comcast.net	865-803-4237
Secretary	Nancy Roberts	nrober10@utk.edu	865-599-1632
Treasurer	Leslie Fawaz	leslie@communitydc.org	865-748-7705
Past President	Samer Sharara	sshatara@denark.com	865-388-3661

DIRECTORS

2014-2016	Samer Shatara		
	Susan Davis	babydavis111603@aol.com	865-271-7998
	Daniel Smith	Daniel.smith@odomconstruction.com	865-389-6691
2014-2017	Will Dunklin	will@williamdunklin.com	865-525-6322
	Kathy Proctor	ksp53@me.com	865-599-7783
	Jim Vineyard	jvineyard@tva.gov	423-240-2481

COMMITTEES

Members Services

Membership	Darson Buckner	darsonbuckner@hotmail.com	865-556-3140
Fun/ House	Suzan Jordan	iamswj@yahoo.com	865-389-9476

Education

Education / Programs	Jeremy Shipp	shipp.arc@gmail.com	423-506-0058
	Jim Vineyard	jvineyard@tva.gov	423-240-2481

Student Chapter

Pres.	Shubhekshya (Subu) Bhandari	sbhanda1@vols.utk.edu	865-312-4728
Vice Pres.	Elizabeth Ott	eott@vols.utk.edu	931-801-0308
Sec.			

Recognition

Technical	Will Dunklin	will@williamdunklin.com	865-525-6322
Certification	Paul Pierson	paulpierson@comcast.net	865-560-0272
Awards	Daniel Smith	Daniel.smith@odomconstruction.com	865-389-6691

Communication

Website	Suzan Jordan	iamswj@yahoo.com	865-389-9476
Publication	Stacy Flick Colbaugh	scolbaugh@lewisgroup.net	865-584-5000
Faculty Advisor	James Rose	jrose18@utk.edu	865-719-0743
Academic Affairs	Geoffrey Cavalier	gcavalie@vols.utk.edu	615-964-1260

Fundraising

Product Show	Josh Brock	Joshua.brock@generalshale.com	865-388-1833
	John Hockensmith	jhockensmith@mhm.com	865-544-2000
Golf Tournament	Wes Crow	wcrow@meritconstruction.com	865-966-4100
	Josh Brock	Joshua.brock@generalshale.com	865-388-1833

Chapter Administration

Planning / Historian	Kathy Proctor	ksp53@me.com	865-599-7783
Bylaws & Operating Guide	Nancy Roberts	nrober10@utk.edu	865-599-1632