



THE SPECK

The Construction Specifications Institute

**CSI KNOXVILLE CHAPTER MEETING
TUESDAY, APRIL 10TH, 2018**

METAL ROOFING APPLICATIONS

Presented By: **Sidney I. Hankins, AIA, RRC, FRCI**
Roof Design & Consulting Services, Inc.

**1LU
AIA**



Orange Grove Center
Chattanooga, TN - Moisture Investigation and Reroofing



ROOF DESIGN & CONSULTING SERVICES, INC.

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, April 9th, 2018

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
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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

APRIL 2018

- 03 **CSI Board Meeting** - Tuesday, April 3rd, 5:30 pm at Odle & Young's Office
- 10 **CSI Chapter Meeting** - Tuesday, April 10th, 11:30 am at Calhoun's on the River. **"Metal Roofing Applications"** Presented by Sid Hankins, Roof Design & Consulting Services, Inc.

MAY 2018

- 01 **CSI Board Meeting** - Tuesday, May 1st, 5:30 pm at Odle & Young's Office
- 08 **CSI Chapter Meeting** - Tuesday, May 8th, 11:30 am at Calhoun's on the River **"Sustainable, Stylish, and Strong: Stainless Steel Sinks Have It All"** Presented by Yancey Quiett, Elkay Manufacturing Representative with The Ben O'Neal Company, Inc

JUNE 2018

- 07 **Gulf States Region Conference Meet & Greet** on Thursday, June 7 from 4-6 pm at Windows on the Park (Sunsphere)
- 08-10 **CSI Region Conference - Knoxville, TN FORENSICS IN DESIGN + CONSTRUCTION** June 8th - 10th, Link to the conference [registration](#) site.



KNOXVILLE CHAPTER: APRIL 2018

- 47 PROFESSIONAL**
- 2 STUDENT**
- 2 EMERGING PROFESSIONAL**
- 2 EMERITUS**
- 2 RETIRED**

- 55 TOTAL**



GULF STATES REGION CONFERENCE

Thursday
JUNE
7-10

SAVE THE DATE!



THE PRESIDENT'S MESSAGE

JUST ANOTHER FINE MESS

MR JAMES ODLE, CSI, CDT
Odle & Young Architects
CSI Knoxville Chapter President
j.odle.oyarch@comcast.net



I do not know how many of you ever saw or have even heard of Laurel and Hardy. For many of you “young emerging professionals” this comedic team were long before your time, and perhaps today you might not even find them funny. But I did. Stan Laurel was always getting into trouble and Oliver Hardy always reaped the “benefit” of that trouble. With a glare and a huge sigh Oliver would push Stan and say, “here’s another fine mess you have gotten me into!” But of course it was all fun and laughter and good times. Search for it on YouTube.

If you spent the second Tuesday of March hiking the AT or on the Beach in Florida or skiing in Utah, you missed another fine mess at the 2018 CSI Knoxville Products Show. There were vendors and exhibitors and visitors and guests galore, and I think I can truly say, “a good time was had by all!” Josh Brock and his team deserve a big round of applause and thanks for the work of recruiting and planning and setting up the event. Help was provided by others of course, but I don’t know all who helped, so thanks to all who supported the Products Show effort.

Even though we have the Products Show every year, the same time, it still takes much work. This year was the same, and we did have great exhibits and good turnout. And the shrimp WERE big! I heard little to no complaints from attendees or exhibitors. The one I did hear was “why did you have to have it on the week of spring break?” Simple answer, our Products Show is always on the second Tuesday in March and the school systems just did not coordinate with us. So if you missed it this year, plan for next year. Put on your calendar “CSI Products Show -Just another fine mess to get into”

Wait, don’t stop there. While your calendar is out, I have “just another fine mess” for you to reserve for yourselves. June 8-9 the Knoxville Chapter

of CSI will be hosting the Gulf States Regional Conference. Many of you who have been involved with CSI for sometime have had the opportunity to attend one of several Gulf States Regional Conferences over the years. Every one I have attended was beneficial and fun. I’m still wearing the T-shirts from several.

In 2005 Knoxville Chapter hosted the Gulf States Regional Convention. Knowing the time and effort it takes to pull off such an event we figured it would be “just another fine mess we have gotten into”. Thanks to all who made it work, the 2005 Regional Conference was an enjoyable success. June 8 -9 is “just another fine mess we have gotten you into”. Thanks to our 2018 Regional Conference Committee, another successful event is planned, one you may wish to attend. More information will be coming, but it is only a couple of months away so mark your calendar for June 8 - 9 with “just another fine mess.”

Mr. James Odle, CSI, CDT
CSI Knoxville Chapter President
j.odle.oyarch@comcast.net



CSI BOARD HIGHLIGHTS

Susan Davis, CSI, CDT, RA
CSI Knoxville Chapter Secretary

March 06, 2018

- Thank you to everyone who attended the Product Show. **How did you find out about the Show? Let us know so we know what was effective.**
- Keep an eye out for CSI at the IIDA Show coming up June 27.
- We have a speakers list and agenda for the Regional conference. **Some exciting stuff!**
- **Do you have an idea for a lunch and learn? Please send to Will Dunklin.**
- AIA is hosting the 4th Annual First Friday Art Salon: A Pop-up Gallery on First Friday, April 6th. The deadline for submissions to be received is Friday, March 16, 2018.

GULF STATES REGION CONFERENCE

Kathy Proctor, FCSI
CSI Knoxville Chapter Planning/Historian



Greetings to you Gulf States Region members!
I wanted to forward you some information on the upcoming **Gulf States Region Conference** that will be hosted in Knoxville this year. We have moved the conference to **June 8 & 9** to allow your family to also partake in the myriad of historical and outdoor activities available in East Tennessee.

The theme of the conference is FORENSICS IN DESIGN + CONSTRUCTION, so we will be looking closely at how things have been done in the past and how to improve on them in the future. This is the link to the conference [registration](#) site. Download the PDF to see a lot of information on the conference and family activities in the area. The conference schedule is not included - it's still being fine-tuned.

For your planning purposes, we have a **Meet & Greet at Windows on the Park** (overlooking the

world's Fair Park) on **Thursday, June 7 from 4-6 PM** with the Hospitality Suite open after that. Friday morning opens with a collection of continuing education and leadership development programs and we will close out the day with our annual **Awards Banquet** at the **Sun Sphere** high above the city. Saturday is full of more leadership and continuing education opportunities followed by Region business.

We will close the conference Saturday afternoon at 5 PM, but there is a lot to do downtown that night! The conference hotel is the **Holiday Inn Downtown** where we have negotiated a \$126/night rate. [HolidayInn](#). If you have questions please contact me at ksp53@me.com or 865-599-7783. We look forward to seeing you in Knoxville!

Kathy Proctor, FCSI, [CSIKnoxville](#)



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Steve Young and Jim Odle

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CSI TECHNICAL

WHAT I LEARNED FROM THE SUNSPHERE

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



What does the Knoxville Sunsphere have in common with smart phones and Cherry Coke? The Sunsphere was built for the 1982 World's Fair held in Knoxville, TN where the touch screen for smart phones and Coca-Cola's latest product were both introduced. And what does this have to do with you? The Sunsphere will be the location of the Gulf States Region awards banquet on Friday evening.

The 1982 World's Fair left Knoxville with a beautiful green space known as "World's Fair Park" which features the Sunsphere and an outdoor amphitheater that is used today by local theatre, dance, and other performance groups. The fair energized architects and engineers which eventually led to a renaissance of downtown living, shopping, and dining that has given Knoxville its reputation as a great place to live.



This unique Sunsphere is 266 feet tall and is topped with a 75-foot diameter, five floor golden globe which remains a recognizable symbol in the Knoxville skyline. There is only one other of its kind in the world which is the Kazakhstan Pavilion built for the Expo 2017. Some of the views from the Knoxville Sunsphere are the University of Tennessee with Neyland football stadium in the background, Smoky Mountains with Mount Leconte, the Tennessee river, and the downtown Knoxville skyline. Many other points of interest are described on the fourth-floor observation deck.



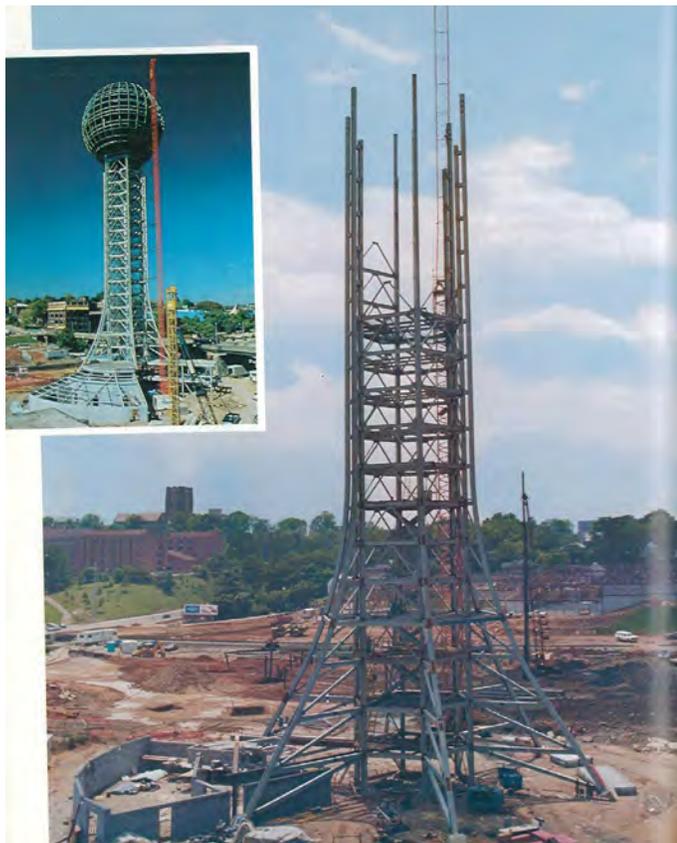
The gold color in the 360 windows is the result of 24 carat gold incorporated into the glass that cost approximately \$1,000 per window at the time of construction. The cost of the entire structure was \$4 million dollars in 1981. The Sunsphere was one of the most popular features of the fair and visitors were charged \$2 to ride the original glass walled elevator to the observation decks. The shaft of the structure consists of six double columns which are splayed at the bottom to provide greater stability and terminate at the base of the sphere. The globe consists of 30 curved steel columns and 13 horizontal loops. The columns are joined at the main shaft by a tension ring at the top of the sphere and a compression ring at the bottom. The structure has been transformed by several renovations, but many of the features listed above can still be observed today.

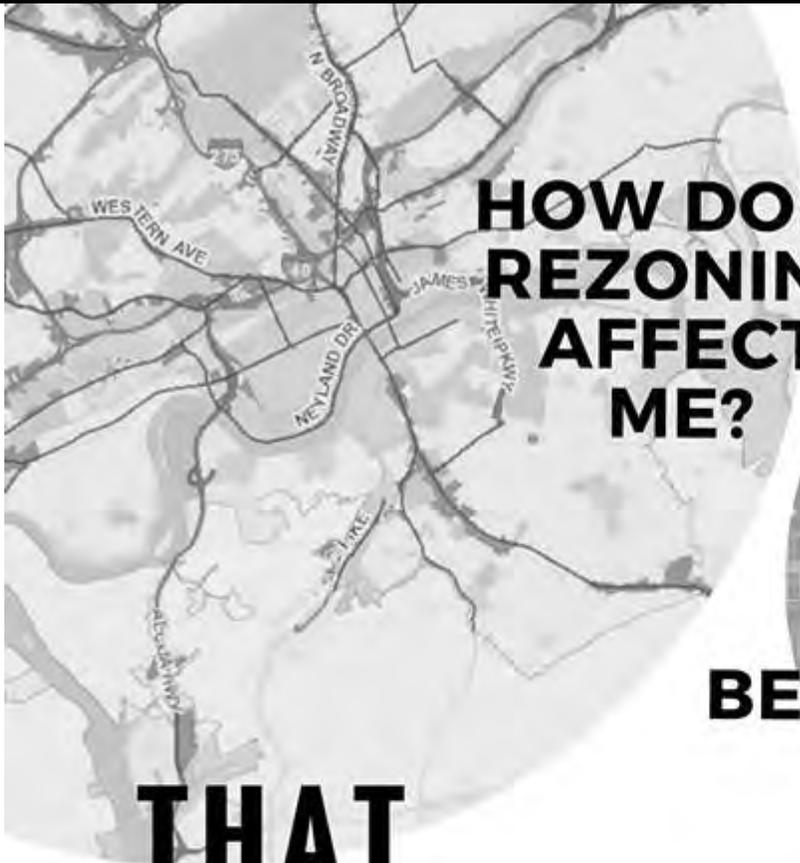
As a mechanical engineer, I always think about the location of the mechanical systems and the plumbing piping. There is a small depression at the very top center of the sphere which encloses the rangehood exhaust fan and HVAC cooling units from view. The replacement of these mechanical units would require a very tall crane. The domestic water and sanitary sewer lines travel 266 vertical feet and are subject to several other considerations. The water supply to the sphere restrooms and kitchen equipment requires a variable speed water pressure pump since the "street water pressure" is not



strong enough (115 PSI required for 266 feet) to get to the sphere. The sanitary waste lines are subject to a phenomenon called "hydraulic jump" as the waste flows vertically down the 266 feet and into the horizontal waste piping at the base of the structure.

The theme of the 1982 World's Fair was "Energy Turns the World," but many came away thinking the emphasis was solar power because of the iconic golden globe. The Knoxville Sunsphere is a unique structure with some very intricate architectural and engineering challenges which were surmounted by the design team and construction crew. *Miller, Teresa. "The Knoxville Sunsphere." Engineering News Record, 26 Nov. 1981*





**HOW DOES
REZONING
AFFECT
ME?**



**WHO
BENEFITS?**

**THAT
USED
TO BE
OUR
NEIGH
BOR
HOOD**

**WHAT REZONING
MEANS FOR
KNOXVILLE**

A Community Forum
Mt. Calvary Baptist Church
1807 Dandridge Ave
Knoxville, TN 37915
Children welcome

doors open at 5:30
6-8 PM

**APRIL
10
18**

UT Sociology in collaboration with the City Council Movement

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