

CSI THE **SPECK**
 Knoxville Chapter
 The Construction Specifications Institute

**CSI KNOXVILLE CHAPTER MEETING
 TUESDAY, MAY 10TH, 2016**

**TILE INSTALLATION - 25 YEARS
 OF CHANGES & TRENDS**

Presented By: Mr. Chip O'Rear, CSI, CCPR, CTC, CCSMTT, LEED AP
 Commercial Architectural Services, Custom Building Products

**1 HR
 AIA
 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 Monday, May 9th, 2016

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.



KNOXVILLE CHAPTER: MAY 2016

2 EMERGING PROFESSIONAL

51 PROFESSIONAL

9 STUDENT

2 EMERITUS

2 RETIRED

66 TOTAL



CALENDAR OF EVENTS

MAY 2016

- 03 **CSI Board Meeting** - Tuesday, May 3rd, 5:30 pm at Odle & Young's Office
- 06 **Submissions for the FY16 Award season are due on May 6, 2016.** <http://www.csinet.org/involved/Honors-Awards>
- 9 **Special Programs** - STEM Academy event on Monday, May 9th, 5:30pm to 7:30 pm
- 10 **CSI Chapter Meeting** - Tuesday, May 10th, 11:30 am at Calhoun's on the River. Guest Speaker: Chip O'Rear: Custom Building Products Tile & Grout.
- 11 **ACW Meeting** - Wednesday, May 11th, at Rothchilds Catering. Socializing will begin at 5:30 pm and meeting kick off at 6pm. Guest Speaker: Mrs. Whitney Nicely and she will be speaking about social media and marketing. **RSVP to Anna Heins at annah@agheins.com by next Tuesday**
- TBD **CSI Lunch and Learn** - TBD 11:30 am at East Tennessee Community Design Center WATE 6 Carriage House "TBD" Presented By Mike Ford for Garland Corporation (CEU)

JUNE 2016

- 07 **CSI Board Meeting** - Tuesday, June 7th, 5:30 pm at Odle & Young's Office
- 14 **CSI Awards Banquet & Induction of New Officers** Tuesday, June 14th, 5:30 pm at Calhoun's on the River.
- TBD **CSI Lunch and Learn** - TBD 11:30 am at East Tennessee Community Design Center WATE 6 Carriage House "City of Knoxville Sustainability initiatives" Presented By Erin Gill

JULY 2016

- 02 **CSI Annual Chapter 4th of July Party - (No Chapter Meeting)** - Saturday, July 2nd, 5:30 pm at Suzan Jordan's House.
- 05 **CSI Board Meeting** - Tuesday, July 5th, 5:30 pm at Odle & Young's Office
- 15 **The Outstanding Chapter Commendation for FY16 is due on July 15, 2016.** <http://www.csinet.org/involved/Honors-Awards>
- TBD **CSI Lunch and Learn** - TBD 11:30 am at East Tennessee Community Design Center WATE 6 Carriage House " Safety Services" Presented By Brian Dolin

THE PRESIDENT'S MESSAGE

WHAT I LEARNED FROM CSI... SMOKE TEST

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



Most of us in the construction industry remember the “attractive wire glass” which was used in fire rated partitions for several years. The fire sprinkler industry has two types of window wash sprinkler heads which make wire glass obsolete. But there are several important design considerations to remember when designing the glass and mullion system.

The window wash sprinkler heads cost approximately \$200.00 per head because only a few manufacturers make them and they are very expensive to get UL testing for this application. The two configurations of the heads are depicted in the illustration below.

The heads are designed to be located no closer than 6'-0" apart to prevent one head from “cold soldering” or spraying the adjacent sprinkler head and keeping it from “going off”. If the heads are closer than 6'-0", a baffle is required to separate the heads to prevent the

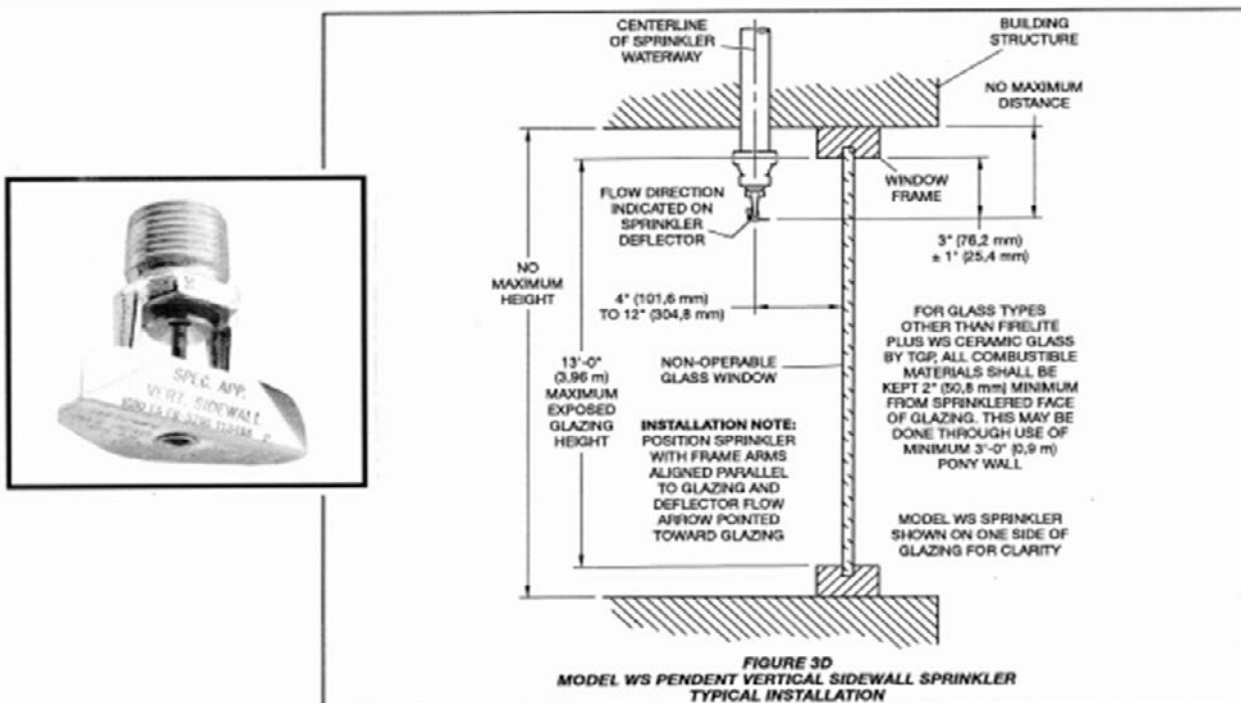


Correct installation with heads on both sides of glass

cold soldering. Several photos of correct and incorrect installation of window wash sprinkler heads are depicted below.

Another critical feature of the glass system is no horizontal mullions are allowed in the glass between the sprinkler head and the bottom of the glass. This is to ensure that the entire glass surface is wet by the sprinkler head in a continuous sheet flow from top to bottom. This wetting of both glass surfaces is intended to prevent thermal stress from building up in the glazing.

According to one manufacturer’s design criteria, the window frame shall be non-combustible frame with a standard EPDM rubber gasket seal. Vertical butt joints of glass panes must be connected by butt-joints using a silicone sealant between the individual panes or by noncombustible mullions



Diagrams courtesy of Tyco Corporation. More information is available at https://www.tyco-fire.com/TD_TFP/TFP/TFP620_05_2014.pdf

(SPRINKLERS... Continued on Page 4)

(SPRINKLERS.... Continued from Page 3)



Correct installation: Sprinkler head at each window on both sides of glazing (sprinkler pip and fittings to be painted at a later date)



Incorrect installation: Wrong spacing on heads, 1/8" thick glazing, no window gasket & combustible window frame?

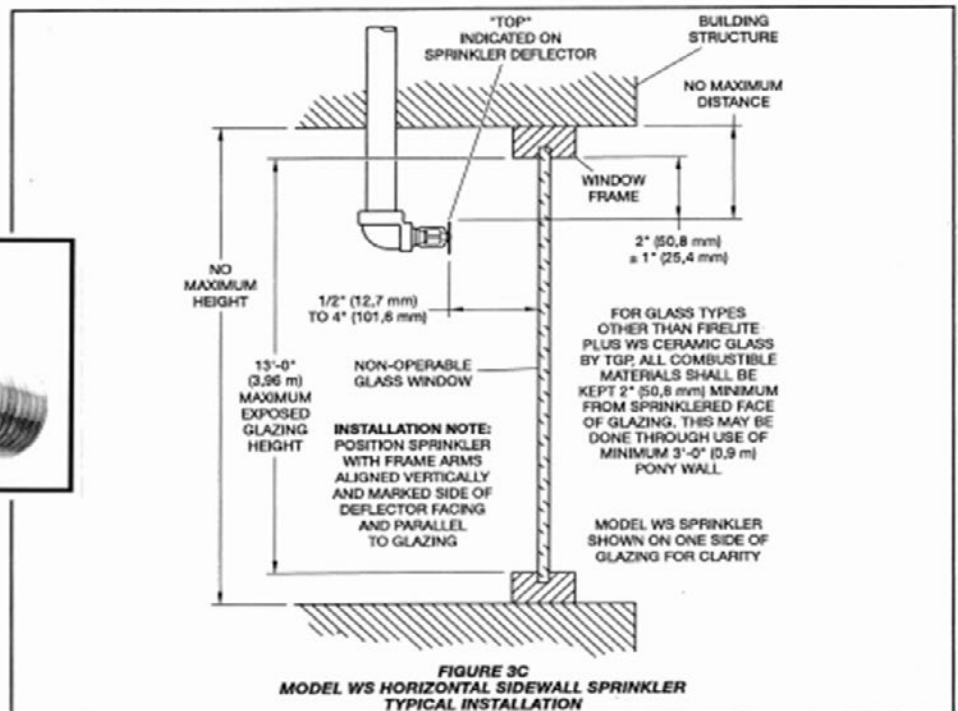
The types of glass that are allowed are as follows:

1. Non-operable, heat-strengthened, tempered, single-glazed (single pane), not less than 1/4 inches thick.
2. Non-operable, heat-strengthened, tempered, double-glazed (double pane or insulated), not less than 1/4 inches thick.
3. Non-operable, UL Classified and labeled FireLite Plus WS ceramic glass by Technical Glass Products (TGP), not less than 5/16 inches thick.

Fire sprinklers and many different construction industry topics are discussed at CSI meetings. Please come to our meeting on May 10 to hear Chip O'Rear discuss ceramic tile and grout.



Gary T. Bergeron
Principal and Co-Owner
Kelso-Regen Associates, Inc.
CSI Knoxville Chapter President
O: 865-588-5348
C: 865-748-6304



Diagrams courtesy of Tyco Corporation. More information is available at https://www.tyco-fire.com/TD_TFP/TFP/TFP620_05_2014.pdf

CSI PRESENTATION SUMMARY

TILE INSTALLATION - 25 YEARS OF CHANGES & TRENDS

BY MR CHIP O'REAR, CSI, CCPR, CTC, CCSMTT, LEED AP

I am extremely proud to be a member of all 21 Chapters across my seven state territory in 2016, my 25th anniversary year with CSI! I've prepared a special technical program on the evolution of the tile industry over the past quarter century with the goal of presenting this program to all Chapters. This will be a high energy, educational and entertaining program. No charts or graphs. Just job site photos of the good, the great, the bad and the ugly. Thank you all for making my 25th Year CSI Pilgrimage an overwhelming success.

Since joining the LA Chapter in 1991, Custom Building Products (now a Quikrete Company) has always supported my efforts with CSI. My entire Team are CSI members across the country. When we come across 09 30 00 Tiling sections and Custom is listed, I credit our involvement with CSI. I've spent my career striving to be the best Construction Product Representative I can be so when a Specifier calls, I've got the answer. Earning the privilege of being specified is my motto. I'm making this pilgrimage to pay homage to CSI for all that membership and fellowship have meant to me throughout my career. See you at the meeting!



Following are the program details for your regular Chapter meeting advertisement/promotional requirements.

Program Title: Tile Installation- 25 Years of Changes & Trends

Program Credits: 1 Hr. AIA HSW LU

Program Description: This program covers the changes and advancements of tile installation products, installation methods, Industry Standards and specification language over the past quarter century. Tile products, surface preparation materials, waterproofing, crack isolation and sound attenuation membranes, large format tile, thin set mortars and grouts are all addressed.

Program credit will be filed by our AIA Program Administrator. If you prefer to register this program under your Chapter AIA Provider Status, that's fine too. Program Certificates will be available at the meeting for those who require them.

I would like to invite some Design Professionals from certain firms in your respective cities that may not be members of your CSI Chapter. I will gladly pay for their meals. If anyone has an issue with this, please let me know.

Chip O'Rear, CSI, CCPR, CTC, CCSMTT, LEED AP
Commercial Architectural Services

Custom Building Products

2597 Alpine Way
Duluth, GA 30096

O- [770-248-1212](tel:7702481212)

F- [770-248-9066](tel:7702489066)

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Past & Present Industry Involvement

- CSI 25 Yrs. Volunteer Service, 16 Yrs. Atlanta Chapter, 10 Yrs. Certification Chairman, Multiple awards
- CDT/CCPR Construction Document Technologist & Certified Construction Product Representative
- AIA Award of Excellence Winner for AIA/CES Providers & AIA Atlanta Midtown Box Lunch Coordinator
- ANSI Voting Member: ANSI A108/A118 Main Technical Committee, American National Standards Institute
- TCNA Tile Council Subcommittee Member & Handbook Main Committee Meetings almost 20 years
- NTCA Co-Chairman: National Tile Contractors Association Technical Committee
- MMSA Materials & Methods Standards Assoc: Technical Committee Member & Association Treasurer
- MIA Marble Institute of America: Association Member
- ASTM C17 & C21: Technical Committee Member
- CTIOA Ceramic Tile Institute of America: CTC- Certified Ceramic Tile Consultant
- USGBC LEED AP: Accredited Professional
- ICBO, BOCA, SBCCI, CABO & ICC-ES Code Approval Coordinator for WonderBoard, The Original CBU Backerboard
- ICRI CCSMTT: Certified Concrete Slab Moisture Testing Technician

*Please make sure Custom Building Products
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My Job Description: Help Specifiers specify Custom Building Products materials throughout the Tile Section.

My Fees: Absolutely nothing! I'm a salaried Product Representative with **26 of years of experience** at all levels.

Chip O'Rear, Custom Building Products, Arch Rep C- 770-329-0020 E- chip@cbpmail.net

STEM Seminar – Techbridge Role Models Matter

An Engaging program in Mentoring Students

Offered by: STEMspark, STEMQUEST, MTSU WISTEM Center and GRITS

The Role Models Matter workshop is for teachers, STEM professionals, and any adult interested in positively impacting students. The program consists of engaging, interactive activities. Participants will learn and practice techniques for being effective mentors and role models.

Basic Agenda:

- Icebreaker
- Crafting attention-grabbing introductions
- Relating your career to students in relevant ways
- Performing an engineering design challenge
- Leading design challenges with students
- Employing meaningful reflection/real-world application to projects

WHEN: Monday, May 9, 2016 from 5:30 PM to 7:30 PM (EDT)

WHERE: L&N STEM Academy - 401 Henley Street, Knoxville, TN 37902

Registration: The program is free but registration is required. To register: <https://www.eventbrite.com/e/stem-seminar-techbridge-role-models-matter-program-tickets-24488872878> or use this QR code to go straight to the registration site:



STEMQUEST



CSI BOARD MEETING MINUTES

By Nancy Roberts, CSI, CDT

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

April 5, 2016

In Attendance:

Gary Bergeron, President
 Leslie Fawaz, Treasurer
 Nancy Roberts, Secretary
 Samer Shatara, Director (2014-2016)
 Daniel Smith, Director (2014-2016)
 Will Dunklin, Director (2015-2017)
 Kathy Proctor, Director (2015-2017)
 Haley Holt, Knox County Schools STEM Facilitator

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 March 1, 2016 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.

3. President report

Gary thanked everyone who helped with the Product Show; he extended special thanks to John Hockensmith and Josh Brock. He offered regrets for missing the Product Show due to traffic delays returning from Michigan. He mentioned that the Suzan Jordan has spoken to potential nominees and other names were suggested to enable the ballot to be published in the April newsletter.

4. President-Elect Report

No report.

5. Vice President report

No report.

6. Board members/committee group reports

6.1 Member Services (membership, fun, and house) – Daniel Smith, Director: No report.

6.2 Education (education, programs, and special programs) – Will Dunklin, Director: Confirmed lunch and learn programs are: April 14th Angel Rich for Vortex Aquatic (CEU) and May TBD Mike Ford for Garland Corporation (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: April 12th chapter meeting will be Will Dunklin speaking about church pipe organ design (no CEU yet, but Will has the CEU instructions and will seek help from other board members in order to register his presentation.) May 10th chapter meeting will be Chip O'Rear speaking about custom building products (CEU anticipated).

June 14th chapter meeting will be Erin Gill speaking about City of Knoxville sustainability initiatives; this meeting will need to be moved to another date due to conflict with annual awards banquet.

July 12th chapter meeting was noted to be Brian Dolin speaking about safety services; this meeting will need to be moved to another date due to conflict with annual July 4th party, in lieu of chapter meeting.

Will agreed to speak to both June and July speakers about moving their presentations to later dates.

August 9th chapter meeting will be Paul Whitt to speak about specifications (no CEU).

September 13th has no speaker confirmed.

October 11th chapter meeting will be Chris McCarty speaking about employment and/or social media issues (no CEU). The (CEU) notation for each chapter meeting refers to the continuing education credits made available for attendees.

6.3 Recognition (technical, certification, and awards) – Susan Davis, Director: Daniel Smith has submitted The Speck for regional award.

6.4 Communications (website, publication, and liaison) – Daniel Smith, Director: New website is getting good reviews, especially with new photos and content being added on a regular basis. There was discussion about the timeliness of The Speck; the consensus was that the Speck should be published no later than the Wednesday morning in advance of the monthly chapter meeting.

6.5 Fundraising (product show and golf tournament) – Kathy Proctor, Director: Josh Brock reported and Leslie confirmed four outstanding invoices. Gary will prepare post-mortem to be used for planning future shows; anticipate distribution via email within two weeks.

6.6 Chapter Administration (planning, historian, bylaws, and operating guide) – Suzan Jordan, Director: Suzan resent revised bylaws for Institute Secretary approval on March 21st.

The next student chapter meeting will be a site visit to Joint Institute for Advanced Materials on April 6th at 5 p.m.

Gary reported that the student chapter won the neighborhood library design competition. It is anticipated that the \$750 prize money will be used to offset the

(MINUTES... Continued on Page 9)



Honors and Awards

Submissions for the FY16 Award season are due on May 6, 2016. The Outstanding Chapter Commendation for FY16 is due on July 15, 2016.

<http://www.csinet.org/involved/Honors-Awards>

CSI INSTITUTE NEWS

From: Chip Hayward
<chiphayward@tampabay.rr.com>

Subject: CDT 2016 On line Mock Exam

Date: May 1, 2016 at 4:27:36 PM EDT

Below is a link to the CSI-SE Region on line mock exam, you are welcome to forward this to any one you know that is preparing for the CDT exam. The link is good till October 31, 2016. There are 200 questions and 140 minutes to take the exam. The test taker can start and stop and resume at a later date.

<https://www.classmarker.com/online-test/start/?quiz=afa54bdbb17a82c6>

We have also posted to You-Tube many of the recorded sessions that the Tampa Chapter conducted as a webinar earlier this year. There are several programs that have been posted by the CDT Tampa Bay Committee, organized by Don Kopy, using the slides that were developed by the Tampa Chapter; a link to one of these recorded sessions is as follows:

<https://www.youtube.com/channel/UCZu5ugwo5dqOspVNvCSzNDg>



budget deficit due to the cancelled scavenger hunt.

7. Calendar
No changes to calendar.

8. Old business
Several board members will be attending the GSR meeting being held in Pensacola, FL April 22 through 24. Chapter members will assist ACW with the blueprint reading class. Gary, Nancy, Suzan, Jim, and Susan have volunteered to help.

9. New business
Haley Holt, STEM Facilitator with Knox County Schools, spoke to the board about possible means by which the chapter and members can engage with the local STEM program. See attached information sheets provided by Ms. Holt.
Will Dunklin suggested that CSI host an expanded Scavenger Hunt in the fall for the community at large, as opposed to trying to coordinate with the UTK Department of Architecture. Board members were intrigued by the suggestion and will discuss it at a future meeting, after obtaining input from others.

The meeting was adjourned at 6:30 p.m. Next board meeting will be May 3, 2016.



<http://csiknoxville.org/>

The New CSI Knoxville Website Is up and Running! Look for announcements on Chapter Meetings, Lunch & Learns, Golf Tournament, & Product Show info. Also like us on CSI Knoxville FaceBook Page!



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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

Blicht Knevel Architects, LLC
757 Saint Charles Ave
New Orleans, LA 70130-3780
cjy@blichtknevel.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

**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	sbhandar1@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