01 - 2018

CSI Knoxville Chapter

THE SPECK

The Construction Specifications Institute

CSI Knoxville Chapter Meeting
Tuesday, January 9th, 2018
Introduction to Prefabricated Fireproof Structural Columns

Presented By: Kyle Corneau Black Rock Fireproof Column Company

1LU 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 3:00 pm on Monday, January 8th, 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

THESPECK Editor

Stacy Flick Colbaugh - Editor
scolbaugh@lewisgroup.net

THESPECK is published monthly by the Knoxville Chapter of the Construction Specifications Institute. Readers are encouraged to submit articles and images of the construction industry interest for our membership. All submittals should be sent via e-mail in a typical file format, such as .pdf, .docx, or .jpg Please verify the accuracy of the information such as correct dates, spelling, and grammar. Deadlines are the 25th of each month.

OUTSTANDING CHAPTER COMMENDATION
CSI
Building Knowledge
Improving Project Delivery
BRONZE LEVEL

KNOXVILLE CHAPTER: JANUARY 2018

47 PROFESSIONAL
3 STUDENT
2 EMERGING PROFESSIONAL
2 EMERITUS
2 RETIRED
56 TOTAL

CSI Knoxville Chapter

CALENDAR OF EVENTS

JANUARY 2018

02 **CSI Board Meeting** - Tuesday, January 2nd, 5:30 pm at Odle & Young's Office

09 **CSI Chapter Meeting** - Tuesday, January 9th, **11:30 am** at Calhoun's on the River **"Introduction to Prefabricated Fireproof Structural Columns" Presented By Kyle Corneau Black Rock Fireproof Column Company (1LU/HSW, see pages 5-7)** RSVP at csiknox@gmail.com

25 **CSI Lunch & Learn** - Thursday, January 25th, **11:45 am** at East Tennessee Community Design Center WATE 6 Carriage House **"Concrete Engineering" Presented By Kelly Barger from Barger and Sons Precast Concrete (1 LU)** RSVP Jeremy Shipp at shipp.arc@gmail.com

FEBRUARY 2018

06 **CSI Board Meeting** - Tuesday, February 6th, 5:30 pm at Odle & Young's Office

13 **CSI Chapter Meeting** - Tuesday, February 13th, **11:30 am** at Calhoun's on the River **"LEED v4: PAINT AND COATINGS" Presented By Candace Carter Smith FROM Benjamin Moore Paints** (IDCEC 0.1 HSW/ AIA 1.0 HSW / GBCI 1.0 LEED) RSVP at csiknox@gmail.com

MARCH 2018

06 **CSI Board Meeting** - Tuesday, March 6th, at 5:30 pm at Odle & Young's Office

13 **CSI Product Show** - Tuesday, March 13th, at Crowne Plaza Downtown Knoxville, TN

CSI PRODUCT SHOW

Tuesday
MARCH
13

Crowne Plaza Downtown
401 W. Summit Hill Dr.
Knoxville, TN 37902

4:00 pm to 8:00 pm

CSI Knoxville Chapter

The President's Message

Product Show on March 13, 2018

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

The CSI Knoxville Chapter is pleased to announce that the 2018 East Tennessee Building Products Show planning is underway. The event will be held at the Crowne Plaza Hotel on Tuesday, March 13, 2018 from 4 - 8 PM. There are 47 booths available. As always CSI will provide scrumptious food, tasty beverages, and lots of amazing door prizes! There is a report of a jobsite heavy duty coffeemaker worth $300 that is among the give-a-ways. Sponsorships are available at the $2,000, $1,500, and $1,000 level. (See detailed Sponsorship options on the application).

Booth fees start at $550 if booked before the January 26, 2018 early bird deadline. (slight increase for payment by credit card)

If you have questions please contact the Product Show Chairman, Josh Brock at joshua.brock@generalshale.com or call him at (865) 388-1833.

Visit the CSI Website for more information
https://csiknoxville.org/

Vendor Application for Product Show Exhibit Space
https://csiknoxville.org/exhibit.php

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

CSI Knoxville Chapter

BLACK ROCK
FIREPROOF COLUMN
A DIVISION OF UNITED STEEL

LUNCH & LEARN

Introduction to Prefabricated Fireproof Structural Columns

Date: Tuesday, January 9th, 2018
Time: 12:00—1:00pm

Description: Structural fire protection guards essential structural components from the devastating effects of fire. This course examines the various active and passive fireproof methods that are available with a focus on the features, types, and design considerations of prefabricated fireproof structural columns designed for exposed exterior and interior loadbearing columns.

Course Information Link: http://www.blackrockfireproof.com/

Learning Units: 1

Credit Designations: LU

Course Format: Instructor-led face-to-face

Can't make it? Take our course online for Credit

Contact Us: Kyle Corneau - (860) 610-4026

Learning Objective 1: Explain some of the active and passive fire protection strategies used in commercial building design

Learning Objective 2: Define the applications, composition, shapes, features, and standards related to prefabricated fireproof structural columns

Learning Objective 3: State the design and erection considerations related to prefabricated fireproof columns, including column design calculations, allowable safe loads, and through-shell connections, and

Learning Objective 4: Discuss the lifetime cost savings that can be realized by utilizing prefabricated fireproof columns versus rigid board encasement, intumescent paint, and spray-applied coatings.

CSI Presentation Course Content

Course Title: Introduction to Prefabricated Fireproof Structural Columns

Course Number: 0920

Kyle Corneau
Vice President of Marketing
Black Rock Fireproof Column - A Division of United Steel
164 School Street
East Hartford, CT 06108 USA

Phone: 860-610-4055
Mobile: 860-883-2669
Fax: 860-760-6029
KCorneau@blackrockfireproof.com
http://www.blackrockfireproof.com

AIA/CES Info: Course# AEC1053
AIA/CES Learning units: 1.00
AIA approved course. This course qualifies for 1.0 LU/HSW Hour.
AEC Daily reports Learning Units on members' behalf.

HSW Info: Course# AEC1053
Hours: 1.00
This course qualifies for HSW.

AIBD Info: Course# AEC1053
CE Hours: 1.00
AIBD approved course. This course qualifies for HSW.
AEC Daily reports Learning Units on members' behalf.

AIC Info: Course# AEC1053
CPD Hours: 1.00
AIC approved course.
Hours must be self-reported to the AIC.

ASHRAE Info: Course# AEC1053
PDHs: 1.00
Course meets ASHRAE guidelines for acceptable Professional Development Hours (PDHs) for recertification purposes. Ensure this course content is related to ASHRAE certification practice area: BEAP, BEMP, CPMP, HBDP, HFDP & OPMP.

BOMI Info: Course# AEC1053
CPD Hours: 1.00
BOMI approved course. This program qualifies for BOMI Institute Continuing Professional Development (CPD) credit for RPA, FMA, and/or SMA graduates. This course qualifies for HSW.
Members must self-report CPD hours.

CCIDC Info: Course# AEC1053
CE Hours: 1.00
CCIDC approved course. This course qualifies for HSW.
Members must self-report CEU hours to CCIDC.

FBPE Info: , Provider Number 0004278, Sequence Number 0000031. Course# AEC1053
PDHs: 1.00
FBPE approved provider.

ICC Info: Course# AEC1053
CEU: 0.10
Professional Development Hour: 1
PP course number: 13813
Preferred Provider: 1293
AEC Daily is an ICC Preferred Provider.
This course qualifies for ICC Certification Renewal.

InterNACHI Info: Course# AEC1053
CE Hours: 1.00
InterNACHI approved course. This course qualifies for HSW.
Members must self-report CE hours to InterNACHI.

NAHB Info: Course# AEC1053
CE Hours: 1.00
This program meet NAHB's continuing education requirements for one or more of the following designations: Certified Graduate Associate (CGA), Certified Graduate Builder (CGB), Certified Graduate Remodeler (CGR), Certified Green Professional (CGP), Graduate Master Builder (GMB), Graduate Master Remodeler (GMR), Certified Aging-In-Place Specialist (CAPS)

NARI Info: Course# AEC1053
CEUs: 0.10
NARI approved course.
0.1 CEU toward certification renewals. 1 Hour toward certification application.

RCEP Info: Course# AEC1053
PDH: 1.00
AEC Daily is an RCEP-approved continuing education provider.
Credit earned on completion of this program will be reported to RCEP.

RCI Info: Course# AEC1053
CEHs: 1.00
This course qualifies for HSW.
This course is approved for RCI CEHs.
Users are to self-report to RCI by submitting their certificate of completion to RCI.

RMMI Info: Course# AEC1053
Credit Per Hour: 1.00
This is a RMMI approved course.
RMMI will confirm certification credit upon receipt of Certificate of Completion (members must self-report).

AAA Info: Provider No. A-002.
Course# AEC1053
Learning hours: 1.00
This course is approved as a Structured Course. AEC Daily reports Learning Hours on members' behalf.

AANB Info: Course# AEC1053
Hours: 1.00
This course is approved as a core course.
Members must self-record their learning hours on the RAIC|Architecture Canada Transcript Database, https://raic.org/transcripts

AIBC Info: Course# AEC1053
Learning units: 1.00
AIBC members may self-report this learning activity for consideration of AIBC learning units.

CSC Info: Course# AEC1053
PDE Hours: 1.00
CSC approved course. This course qualifies for HSW.
Members must self-report PDE hours to CSC.

NLAA Info: Course# AEC1053
Learning units: 1.00
This course is approved as a core course.
Members must self-report LUs through the MCET National Con Ed reporting website. (www.architranscripts.ca/default.htm)

NWTAA Info: Course# AEC1053
Learning Hours: 1.00
This course is approved as a Structured course.
Members must self-report Learning Hours through the National Con Ed reporting website at https://www.raic.org/transcripts/default.htm

OAA Info: Course# AEC1053
Hours: 1.00
This course may apply to both OAA structured and unstructured learning as long as it addresses the required subject matter topics.
Members must self-report activity to OAA and retain your Certificate of Completion.

Taconic Connection

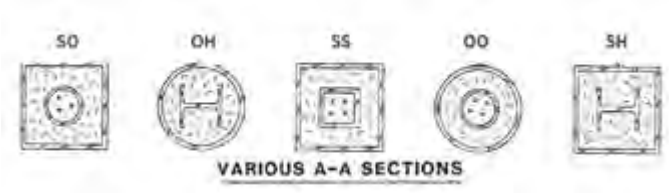
OAQ Info: Course# AEC1053 / Cours # AEC1053

Hours / Nombre d'heures: 1.00
This course qualifies for self-directed learning activity with the OAQ. / Ce cours est reconnu par l'OAQ comme activité d'auto-apprentissage.
Members must self-report hours to OAQ. / Les membres doivent rapporter eux-mêmes leurs heures à l'OAQ.

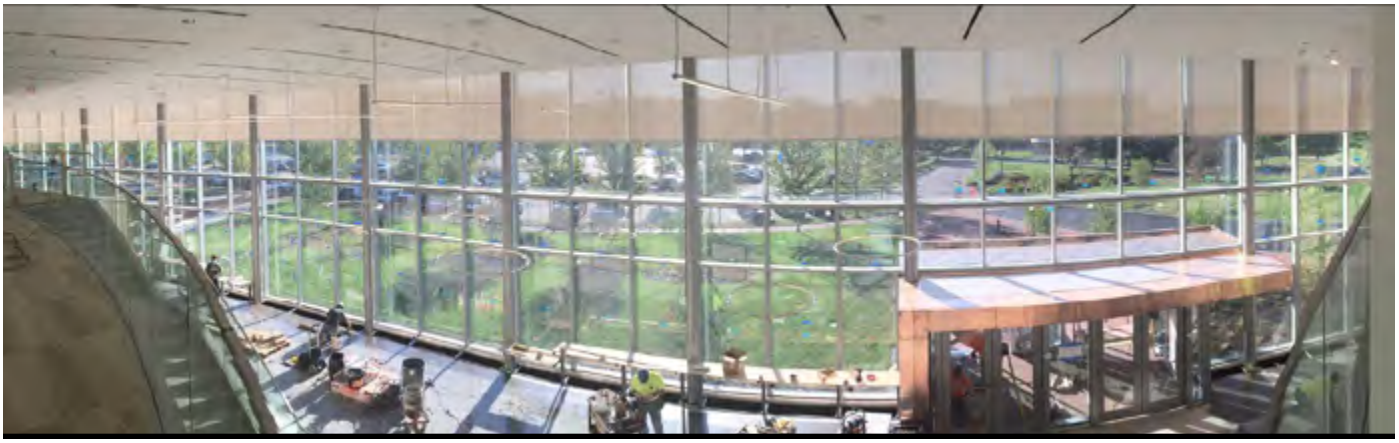
SAA Info: , Provider No. 1036. Course# AEC1053

Learning units: 1.00
This course is approved as a core course.
Members must self-report LUs through the RAIC National Con Ed reporting website. http://raic.org/transcripts.


For indoor and outdoor structural use, architects and engineers appreciate the strength, versatility and long-term reduced maintenance cost provided by Black Rock Fireproof Columns.



VARIOUS A-A SECTIONS



BLACK ROCK
FIREPROOF COLUMN
A DIVISION OF UNITED STEEL

THE PROOF IS IN THE COLUMN

Black Rock Fireproof Column manufactures durable, aesthetically designed prefabricated fireproof columns. Black Rock Fireproof Columns are UL and AISC certified and offer several types of cost savings to building owners.

Black Rock's round, square, and rectangular shapes (along with customized shapes and sizes) are designed for exposed exterior and interior loadbearing columns. They are utilized in hospitals, schools, dormitories, cafeterias, shopping centers, and countless other structures. The columns are the premier choice for parking garages and high traffic entryways because of their protective steel shells.

Our structural steel WF, pipe, and HSS squares and rectangular shapes meet ASTM and AISC standards, and all steel and concrete meets or exceeds UL regulations.

Black Rock Fireproof Columns save owners cost and installation time through:

- Factory fireproofing (in-shop labor eliminates need for field labor to apply other forms of fireproofing)
- Exacting quality control performed by our in-shop factory professionals
- Decreased long-term maintenance costs and the added durability of exterior steel shells
- Predictable scheduling as Black Rock Fireproof Columns are delivered to site completely fabricated, fireproofed, and ready for erection
- No additional trades needed for on-site fireproofing
- Added security and confidence of working with an AISC-certified structural fireproof column fabricator

Black Rock assures on-time deliveries by maintaining our own trucking fleet of 15 tractors and 40 trailers. We also tap into our network of over-the-road trucking firms whenever needed to meet owner demands.

See Reverse for Cost Analysis →

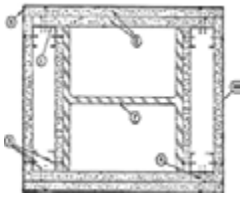
Prefabricated Building Column Cost Comparisons
Costs based on a 10 x 10 Column @ 12' Tall (Open shop rates)

	Sheetrock Encased 2 Layers, 2 HR, UL X509	Intumescent 2 HR Field Applied Coating	Spray on Fireproofing as per UL X716, 2 HR, 9/16" Thickness	BRFC "BRIDGEPORT" 2 HR TYPE SS X106
	$550 4 Hours- frame and sheetrock 4 Hours - bead and tape	$500	$300 2 - two-hour days per column	$300
Material	$225	$600	$50	$650
Equipment	$125 Lift Rental	-----	$125 Lift Rental	-----
Column cover	-----	-----	$1,500	-----
Onsite lost time	1 Day	1 Day	1.5 Days	**No Days Lost**
Total Initial Cost	$900	$1,100	$1,975	**$950**
Maintenance Costs	$450 Patching holes and re-beeding, taping and painting every 5 years	$250 Touch up intumescent coating every 5 years	$1,500 Replace rfp column every 10 years	-----
Total 30-Year Cost	$3,150	$2,350	$4,975	**$950**

LUNCH &LEARN

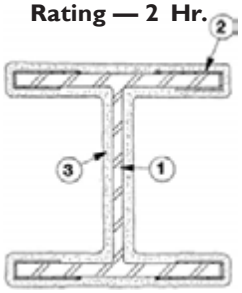
Scan here to request a Lunch & Learn Today!

UL Design No. X509 Rating 3 Hr



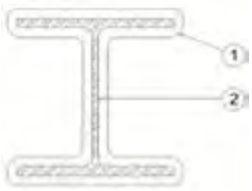
Steel Studs — 1-5/8 in. wide with leg dimensions of 1-5/16 and 1-7/16 in. with a 1/4 in. folded flange in legs, fabricated from 25 MSG galv steel. Steel stud cut 1/2 in. less in length than assembly height.
2. Gypsum Board — Two layers of 1/2 in. thick wallboard
3. Screws — 1 in. long self-drilling, self-tapping screws, spaced vertically 24 in. on centers, except on the outer layer of wallboard on the flanges, which are spaced on 12 in. centers.
4. Screws — 1-5/8 in. long self-drilling, self-tapping screws spaced vertically 12 in. OC.
5. Corner Beads — No. 28 MSG galv steel, 1-1/8 in. legs. Attached to wallboard with 4d by 1-3/8 in. nails spaced 12 in. OC at each leg.
6. Joint Compound — 1/16 in. thick. As an option, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard.
7. Steel Column — Min size of column, W10 x 49, with outside dimensions of 10 x 10 in. with a flange thickness of 9/16 in., a web thickness of 5/16 in., and a cross.

Design No. X601 November 29, 1999 Rating — 2 Hr.



1. Steel Column — Min size W10x49. The column surfaces shall be sand-blasted and be primed with epoxy based or zinc silicate primers to an approximate dry film thickness of 0.003 in.
2. Flange Edge Reinforcement — 1/2 by 1/2, No. 19 SWG galv steel welded wire mesh. Butt ended mesh bent to fit tightly over flange edges along the column length. At a coating thickness greater than 0.50 in., galv or stainless steel flange edge clips of min diameter of 0.08 in., spaced at a max of 24 in. on center and at the ends of mesh shall be used. The mesh ends shall be fastened together across the flange faces with galv wire of 22 gauge or larger.
3. Mastic and Intumescent Coating. Two component spray material applied in one or more coats as described in the application instructions.

Design No. X701 May 23, 2016 Ratings — 1, 2, 3 and 4 Hr.



1. Spray-Applied Fire Resistive Materials
For method of density determination, refer to Design Information Section, preceding these designs.
Rating Hr Min Thkns In.
The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials applied to columns flange tips are reduced to one-half that shown in the table below:

4 HR = 2-1/2"
3 HR = 1-11/16"
2 HR = 1-1/8"
1 HR = 11/16"

BlackRock Fireproof Column Ratings — 2, 3 and 4 Hr.

(1) Concrete (2) Structural Steel (3) Vermiculite, a special proprietary insulating material (4) Outer steel shell that is permanently protecting the fireproofing material. Blackrock columns are rated and labeled by Underwriters Laboratories, Inc. for fire retardant classifications of 2, 3 and 4 hours. Columns are completely shop fabricated and shipped to the job site ready to erect.

BLACK ROCK FIREPROOF COLUMN
A DIVISION OF UNITED STEEL

An Affirmative Action/Equal Opportunity Employer

BLACKROCKFIREPROOF.COM
1-800-270-5882 | info@blackrockfireproof.com
164 School Street, East Hartford, CT 06108

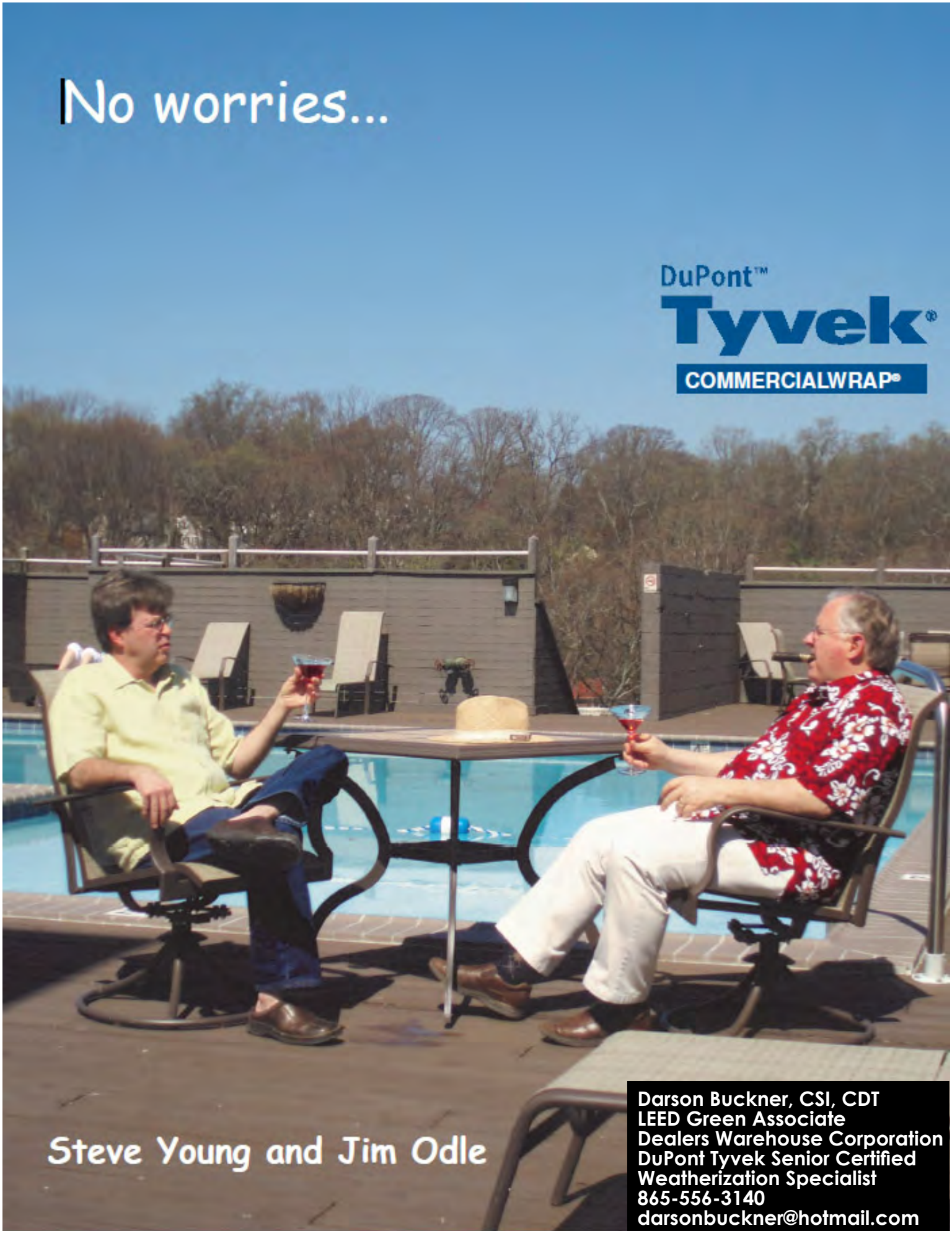
CSI PHOTOS

CSI Knoxville Chapter Christmas Party on December 12th, 2017 at the home of Samer and Lina Shatara
Photos By Suzan W. Jordan, CSI, CDT

Knoxville Chapter

CSI PHOTOS

CSI Knoxville Chapter Christmas Party on December 12th, 2017 at the home of Samer and Lina Shatara
Photos By Suzan W. Jordan, CSI, CDT



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CSI CORNER

WAYWARD WEBSITES

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

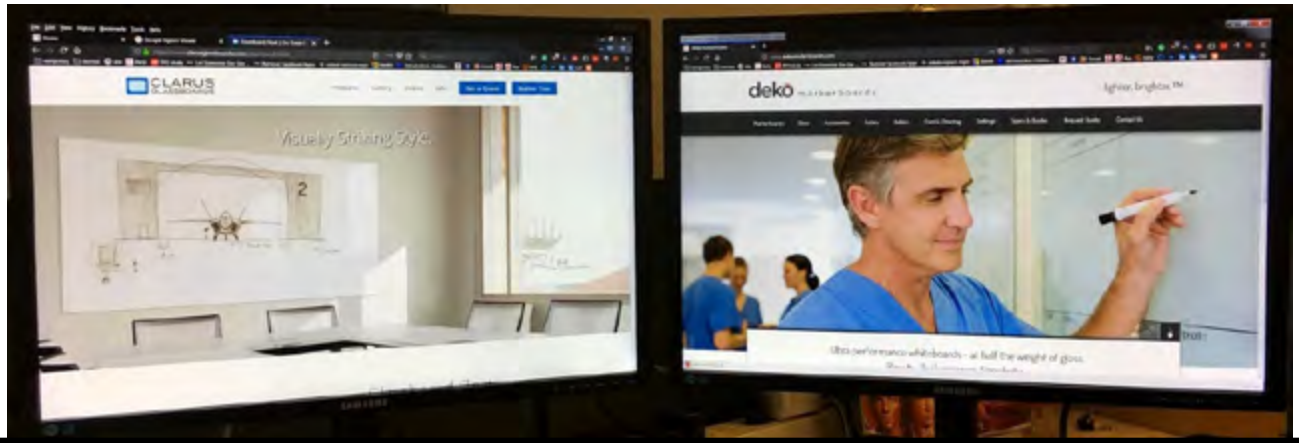
There's often a lag between the time something new comes along and the time it is fully incorporated into our lives or work. When websites first came online, in the mid-'90s, they had obvious potential but companies weren't sure what to do with them. As I recall, many of them focused on the history of the company, stocks and market activity, and various other things useless to most visitors. The content was what the company owner thought was interesting; it was not what the prospective customers needed.

At the time, there wasn't much in the way of instruction for web designers and there were few rules about how to make a website work or what it should be. An architecture firm in my area had a beautiful website, graced by one the firm's most impressive projects. The problem was, it took forever to load. I analyzed the code and the files, and discovered they were using a huge image file. They apparently didn't know that there usually is no discernible difference between an image file of a few kilobytes and the same image in a two-megabyte file. Eventually, website designers grew familiar with HTML and the way web pages should be formatted, companies learned what users wanted, and users learned how to search websites to find what they wanted. Even though most websites weren't perfect and many had serious problems, websites became much better and continued to evolve.

And then, along came mobile devices. At first there were few problems, but in typical fashion, the more people used their smartphones, the more they expected from them, and the more they became like miniature computers, able to do most of what their larger cousins were able to do. Unfortunately, their size - the very thing that made them so useful and contributed to their rapid growth - limited the amount of information they displayed. Monitors had been growing in size for many years, and software was written to take advantage of the available space. Despite the obvious limitations of a small screen, users demanded that websites be fully functional on a smart phone, and website designers did what they could to make everything available to this new market.

All that makes sense, but instead of making everything work, computer and software designers merely moved the problem from one machine to another. The first image in this article is a screen capture from my iPhone. It's close to actual size, so you can imagine that it isn't easy to work with. The picture can be resized, though, making it easy to access the various options. The same image on my desk monitor fills the screen from top to bottom. All of the twenty-one links to other information are large enough to read, and all are visible at the same time. I've been using multiple monitors for a few years, and I've found that I have not yet reached the point where I have enough of them. I used two (the notebook monitor plus one external monitor) for a few years, and acquired a third this summer. It's so much easier to work when several documents or programs can be displayed at once, rather than having to continually pull one on top of the

(Websites ... Continued on Page 14)

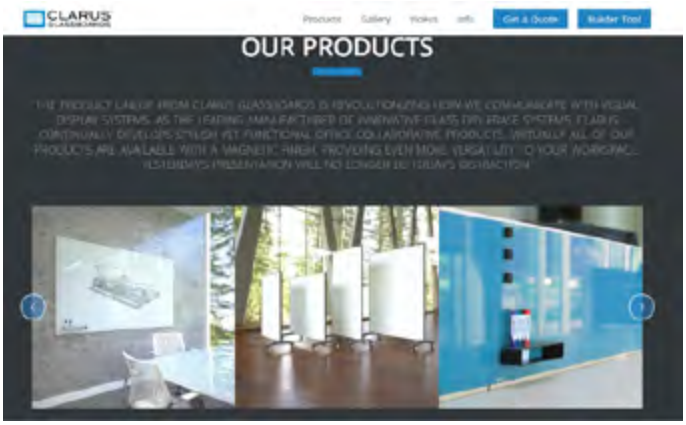


(Websites... Continued from Page 13)

others!
The result of these changing technologies is that I finally have about as much monitor area as I want, but because of the drive toward miniaturization, that space is poorly used by today's software. Here's a picture of my monitors:

Both are 24-inch monitors, with a viewing area 20-1/2 inches wide by 16 inches tall. That's 164 square inches, or 1.14 square feet per monitor. Total: 2.28 square feet. My iPhone has a screen that is 2-1/2 inches wide by 4 inches tall, total area 10 square inches, or 0.07 square feet.
Now look at the websites on my monitors. Notice the inefficient use of more than two square feet to show two nearly full-screen images and a handful of words. That may work on my iPhone, assuming I wanted to try to use it to read large quantities of information, but it makes no sense on a standard monitor.
You might be inclined to dismiss this problem, knowing that it's easy to scroll down or choose a menu option. That would be fine, but the same format typically is used throughout the website. So, instead of being able to read a reasonable amount of text on that big monitor, the user is forced to scroll through huge graphics and choose options presented in oversized icons. Here are two more examples that show how something designed for a tiny screen makes no sense on a monitor.

I can easily display two Word files on a single screen with a font size even I can read without my glasses, a total of



about 1,000 words. With websites like those illustrated here, I might see only as much as 100 words plus a few icons on the entire screen!
Other irritating features of many sites are the pop-up and drop-down screens that often conceal much of the information that was present. Some of these suddenly appear or disappear as the cursor is moved, while others hang on until the cursor is moved to another place.
The crazy thing is that many of these probably are award-winning websites. They can be beautiful, and the bells

and whistles can be interesting, but instead of helping the user, they present more obstacles to finding useful information. In a way, they're like magazine architecture. Lots of wow factor, with function as an afterthought.
There are ways that websites can detect what device you're using and modify the website content to fit. In fact, the Clarus and Deko websites use this technology. If you visit those sites, you'll see that the arrangement and size of the things you see will change as you shrink or expand the browser window. Unfortunately, the font size appears to be fixed, and while some images will change size, there seems to be a lower limit, and the sizes of many icons are fixed. So, despite the flexibility, the information density is high only on mobile devices, and what is seen on a large monitor is mostly empty space.
For an interesting discussion of current website layout, see http://blog.teamtreehouse.com/which-page-layout.
What has your experience been? Do you find yourself doing a lot more scrolling and searching now? How often do you look for product information with a smartphone instead of a computer? Do you write or read specifications on a smartphone?

Agree? Disagree? Leave your comments at https://swconstructivethoughts.blogspot.com/2017/12/wayward-websites.html

Building Knowledge
Improving Project Delivery

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