Program Information
Tuesday, March 15, 2016

Note change in time & format

Orange County CSI Chapter
March Meeting

Program: Annual Joint Meeting with WWCCA & OCCCSI
Electric Field Vector Mapping (EFVM)

Speaker: Joseph Daniels
D7 Consulting Inc.

We will join the Western Walls & Ceiling Contractors Association for our March Meeting. The meeting schedule will honor their meeting style and location. The meeting begins at 3:00 p.m. and ends with a very generous raffle.

Joseph Daniels of D7 Consulting Inc. will present our program that is an introduction to D 7 and EFVM, a new service centered in Testing and Inspection of new or in place roofing and waterproofing systems. EFVM is a fast, efficient and environmentally friendly method of testing completed or in service roofing and waterproofing systems for leaks. Using the basic principles of electricity (positive v. negative fields) and conductivity; membrane deficiencies can be found with pinpoint accuracy within minutes, versus several days at the risk of causing damage to the membrane. We will focus on How to perform the testing. Reasons for specifying the testing versus older standards, and the Key Components that everybody involved needs to know prior to performing the actual testing.

Joseph Daniels has been working in the Exterior Envelope Consulting business for over 29 years. With a Certificate of Architecture from UC Irvine and numerous other classes in the field of Architecture, Construction and Consulting, Joe has been educating himself continuously for well over 20 years. He has written specifications and designed the Exterior Envelope components for some of the largest projects in the past 20 years, including the City Center in Las Vegas, LA Live, Disney Concert Hall, Las Vegas Convention Center to name a few. He started D 7 Consulting Inc. in 1993. In the 23 years of being a business owner and consultant, Joe has managed large and small projects, managed a full staff of some of the best consultants in the business and continues to expand the company and the services. He has been a member of RCI (Roof Consultants Institute) for over 20 years and has participated on many Advisory Boards, has been a speaker many times on numerous topics. He has published articles in magazines such as RCI Interface, Western Roofing, etc. Joe enjoys golf, travel and his family (wife Janick of 30 years and son Jaren 20, both of whom work at D 7). Joe enjoys new challenges and making a difference in other people's lives.

Time:
3:00 PM  Registration & Cocktails & Appetizers
4:00 PM  Call to Order/Pledge of Allegiance/Self Introductions
Program
Raffle

Location:
Phoenix Club - Pavilion
1340 S. Sanderson Avenue
Anaheim, California

Directions:
Orange County Thomas Guide 769-EU and 799-E1,
57 Freeway to Ball Road exit, east to Phoenix Club Drive,
south to Sanderson Avenue, right to entrance

Parking:
Plenty of free parking

Dinner Cost: $45.00 (includes $20.00 raffle ticket option) for OCCCSI members and nonmembers with reservations. (No-show reservations will be billed)

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Business Card Size Ad $250.00
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Quarter Page Size Ad $450.00

Ads should be submitted as camera ready art. If on disc, the format should be Adobe Illustrator or Photoshopped. To purchase an ad space please contact Dana Thornburg, CSI (800) 600-6634

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See our website, occcsi.org, for further disclaimer information.
CONTINUOUS INSULATION (CI): MYTH OR REALITY?: PART ONE

A question asked more and more frequently is, "You’ve been telling us about CI requirements in the energy codes for almost five years now. But, I’m still not seeing many, if any, projects incorporating ‘CI.’ If it’s part of the code, why aren’t we seeing more?"

National and California energy codes are becoming more stringent. The 2008 California Energy Code enacted in January 2010 was to have a direct impact on exterior cladding systems on commercial construction. Specifically, continuous insulation would be required, particularly on metal-framed exterior walls. With the current 2013 California Energy Code and the 2016 Code set to be enacted January 1st. 2017 confusion is still running amuck.

As a passionate student of the energy codes (it sounds silly but I really like studying this stuff), I have my opinions and an understanding of the facts. However, before I explain, we should start with the basics or at least what I feel is a necessary understanding for the design community.

U-FACTOR VS. R-VALUE

Most of us in the construction business are aware that an R-Value is a measurement of a product’s (E.G. insulation) Thermal Resistance or how it slows down heat flow. The higher the "R", the better the performance. The U-Factor (reciprocal of R-value) measures the Thermal performance of a building element such as a wall assembly and how much energy (heat) flows through it. This means that the lower the U factor, the better performance of the assembly.

CLIMATE ZONE

National energy codes have placed the country into eight different climate zones. We need to know U-Factors because every climate zone in the state has been assigned a maximum U factor. Every climate zone is assigned a maximum U-Factor. For example, a wall built in National Climate Zone 3 must have a U Factor not to exceed .084. Many Climate Zones in colder areas have a more stringent U-Factor of .064 (Remember: the lower the number, the better the energy efficiency).

When dealing with energy codes in our beloved state (yeah it’s a mess but I wouldn’t live anywhere else), the California Energy Code has assigned the state our own 16 climate zones. If you are not yet confused then give me a minute. If you are doing a "federal" project in CA, then you have to adhere to the International Energy Conservation Code.

CONTINUOUS INSULATION – PER THE CALIFORNIA ENERGY CODE

Continuous Insulation: insulation that is continuous across all structural members without thermal bridges except fasteners and service openings. It is installed on the interior or exterior, or is integral to any opaque surface of a building envelope. Sounds pretty straightforward, doesn’t it?

TWO METHODS OF COMPLIANCE: THE PRESCRIPTIVE AND THE PERFORMANCE METHOD

The prescriptive method lists baseline U Factor requirements. With framed walls as an example, the U Factor is achieved by using a combination of cavity insulation and continuous insulation.

A companion to the energy code, “Reference Appendices” gives you options or combinations of cavity insulation and CI to achieve the U-Factor. Tables JA4.3.1 “U Factors of Wood Framed Walls” and JA4.3.3 “U-Factors of Metal framed Walls For Non-Residential Construction” are particularly helpful. The California Energy Code and Reference Appendices can be found (free download) at http://www.energy.ca.gov/title24/2013standards/. The R-Values listed in the tables “shall be equal to or greater than the R-Value published. No Interpolation is permitted.”

The performance method is more complicated and normally performed by a mechanical engineer. However, this “alternative calculation” allows tradeoffs when we compare the overall performance of a project.

In plain English, the engineer uses California Energy Code-compliant software (CEC-Compliant software can be found at www.energy.ca.gov) and compares the energy use of the different building components. This comparison allows for tradeoffs to occur.

For instance, the building HVAC system may be 2 or 3 times more efficient then the prescriptive requirement. The computer software basically averages out the energy use of the building, which may allow for a less energy-efficient wall envelope design.

For Part Two of “CI Myth or Reality” read my next “President’s Message”.
By Annette Wren, FCSI, CDT

In our wonderful culture of communicating with others, we have so many choices. We can choose to text, Twitter, use social media apps, email, telephone, etc. When communicating to others through all of these vehicles, do you really know where your messages are going?

Recently, our communication with a new vendor gave me a new lesson and reminder about the circulation of emails. You are aware of the blind copy feature of emails. Therefore, you know that what you write may be seen by the entire world. This new vendor gave another insight into this practice. By responding to their email address, any responding email was sent to all of their employees working on the project as well as EVERYONE in our company vaguely related to the task at hand. This practice started off innocently enough when we first communicated. There was only one email address listed when I responded. After sending an email I immediately noticed that my responses were sent to ALL of my 6 email accounts. It seemed that they wanted to cover all the bases. Their email address had a bundle of recipients blind copied automatically. When I started proofing their copy and sending multiple email responses, it was apparent that everyone was not amused with the abundance of emails. They never communicated that everyone would be receiving every email in their business communication with our company. They currently have a choice to cut it out or be cut off!

Facebook is a very popular and easy way to communicate to your friends all over the universe. Facebook is definitely something that the masses have embraced. One should be aware that your documentation that is put forth on Facebook is going to remain like a tattoo on your body. This is something that needs to have serious consideration. My words to my nephews: If you are going to be nothing in this world, go ahead and tell us all what you are doing and thinking every second of the day. Show us all the stupid stuff that you are doing. Tell us about your deepest, darkest feelings. Know that your friends, creditors, government agencies, possible future employers – EVERYONE – are going to know everything about you for better or worse. Reach out and touch someone, but be careful.

And finally, remember to use your landline or cell phone for passing on critical and important information. The painful memory that comes to mind is that of the late Cliff Clark’s notice of his wife’s, Annamaria, funeral. No one received his email. No one attended the funeral because the email did not go through. Cliff’s feelings were very hurt until people reached out to clear up the misunderstanding. Remember to pick up your phone and reach out with important information!

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In the last few years, it has been proposed that owners might benefit from hiring specifiers directly. It has even been suggested that specifiers might help owners choose architects. Specific aspects of these ideas, and of related issues, were addressed by member presentations at the 2012, 2013, and 2014 CSI annual conventions. There will be one similar presentation at this year’s (2015) convention.

Last year, at the convention in Baltimore, several Institute directors and interested members met to discuss a report that had been submitted to the Institute board by Ujjval Vyas, PhD, of the Alberti Group. This report, titled “The Risk Management Value of Specifications,” was prepared at the request of CSI. The report’s Executive Summary noted conditions that would surprise few specifiers: Specification software is beginning to replace activities traditionally done by a specifier; contractors are becoming more involved in specifications, especially in design-build projects; and specifiers suffer from the Rodney Dangerfield syndrome - their value often is not appreciated by their employers, with commensurate effect on stature, compensation, and opportunity for advancement.

What will happen to specifiers in the next decade? Will they be replaced by software? Will they shed the grunt work of word processing and become even more valuable, devoting their time to product research, coordination of documents, and adding intelligence to the building model? Or will they simply fade away?

We saw this happen with drawing - we moved from linen to vellum to digital images, and we moved from drafting to CAD to building modeling. Yet all of these options remain in use - all of the above possibilities will exist in some degree, and it’s possible someone will continue using a typewriter to write specifications. But which of these possibilities, or what combination of them, will be most common?

What I see suggests the answer won’t be to the liking of most specifiers. Specifying software will get better. It will extract more information from the building model, it will get easier to use, it will further automate editing of specifications, and it will be seen as a replacement for specifiers. Contractors will continue to increase their importance during construction, and designers will continue to lose credibility with clients. Will specifiers soon find themselves in the unemployment line?

What happens, both to specifiers and to specifying as a career, will be affected by what specifiers do to influence the discussion. If they do nothing, they will be further marginalized, and though they might not be laid off, they may not be replaced when they leave. Based on what I’ve seen, that is the likely course.

(continued on page 14)
We are proud to present our exhibitors from our Construction Products & Services Expo 2015 on September 8th. This column will report on groups of exhibitors in each issue right up to the next show. Learn more about them right here!

**Behr** - As one of the nation’s largest suppliers of paint, primers, stains and surface-finish products, including BEHR® and KILZ® brands, we are dedicated to meeting the coating and color needs of architectural and design professionals with an unwavering commitment to quality, innovation and value. And through our professional products and services program, we offer business solutions, tools, resources, and expert support. Masco Coatings Group is a division of Masco Corporation (NYSE:MAS) and is headquartered in Santa Ana, CA. Visit Behr.com /architect. Contact: Janet Piccola, FCSI; National Architectural Manager; cell (714) 679-5730 or Joe Esquer, CSI; National Technical Manager; (714) 299-1747.

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Event: Construction Products & Services Exposition 2016
Marconi Automotive Museum & Foundation for Kids
1302 Industrial Drive
Tustin, California

October 13, 2016

Sponsor: Orange County Chapter Construction Specifications Institute

Invitation:
• You are invited to participate as an exhibitor.
• Architectural seminars with AIA/CES credit prior to exhibits.
• Display your products for local design professionals, owners, contractors, facilities managers and others.
• Exhibit hours are 4:30 p.m. to 7:30 p.m.
• Gourmet hors d’oeuvres passed during exhibit hours.

Reservation: Please make your check payable to the Orange County CSI Chapter. Upon our receipt of your check, you will then receive set-up details and location confirmation. No credit card reservations will be accepted after October 10th. For questions, please call Dave Brown (714) 329-8498, E-MAIL dbrown.dpe@gmail.com or Bryan Stanley (714) 221-5520, E-MAIL: bryan@tsib.org.

Prices of Exhibits: BEFORE, August 1, 2016 (Postmarked) DISCOUNT CHECK/CASH
Tabletops (6' x 2-1/2' table)...........................................$600.00 each
Mini-Booths (8' x 2-1/2' table).................................$700.00 each
Booths (approx. 10' x 8')...............................................$900.00 each

AFTER, August 1, 2015
Tabletops (6' x 2-1/2' table)...........................................$700.00 each
Mini-Booths (8' x 2-1/2' table).................................$800.00 each
Booths (approx. 10' x 8')...............................................$1,000.00 each

For credit card transactions and prices go to our website at occcsi.org until October 10, 2016.

Mail to: Orange County CSI Chapter
Post Office Box 8899
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RETURN THIS PORTION WITH YOUR CHECK
Event: Construction Products & Services Exposition 2016
October 13, 2016 - Marconi Automotive Museum & Foundation for Kids

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Los Serranos Country Club

What: Orange County Chapter CSI Golf Tournament
When: June 24, 2016 - Shotgun at 1 p.m.
Where: Los Serranos Golf Club
       15656 Yorba Avenue
       Chino Hills, California 91709
Dinner: 6 p.m
OCCCSI/LACSI Annual Joint Meeting

Photos by Annette Wren, FCSI, CDT
OCCCSI/LACSI Annual Joint Meeting

Photos by Annette Wren, FCSI, CDT
OCCCSI/LACSI Annual Joint Meeting

Photos by Annette Wren, FCSI, CDT
I’ll report on a couple of books this month. The first was written by two professors of architecture in New Zealand: Architecture on the Carpet, The Curious Tale of Construction Toys and the Genesis of Modern Buildings. In addition to documenting the history of toy building sets for kids going back to mid-19th Century Germany, it also presents the case that some architects, who played with these toys as children, were influenced by them and this was reflected in their architectural designs as architects. Whether or not you can agree with the authors’ arguments on this, it won’t detract from the careful and entertaining description of a whole series of architectural toys beginning with the German Richter’s Blocks in 1880 and concluding with the familiar Lego building bricks that first appeared in 1947 in Denmark. Most of the other sets described are unfamiliar to me, and I’m guessing to most of you, since they were made either in England or Germany and not widely available in the US. The origins and evolution of two of the best known, Lincoln Logs and the Erector Set, are presented. Both toys are still available to purchase today. The book was written by Brenda and Robert Vale and was published in 2013 by Thames & Hudson. It has 207 pages and includes about 100 color illustrations and photographs.

The second book this month is at the other end of the architectural interest spectrum. Rust, the Longest War, as its title suggests, describes the history of corrosion and its effects on just about everything made of metal. The book’s two most interesting chapters, (certainly for non-architect/engineer readers), are on the amazingly complicated engineering and precision manufacturing necessary for corrosion-proof food and beverage cans. The other chapter is on the hunt for corrosion in the Trans-Alaska Pipeline.

Rust is not a new problem having been mentioned in the Bible. Due to problems resulting from rust, the British Navy, as early at 1810 refused to build iron ships rather than wooden ones. “Iron won’t swim” they thought. In the US at the turn of the 20th Century, there were fears among some that iron wasn’t suitable as a structural material since it would rust away over time. This ignorance was understandable since the oxidation of metals (corrosion), what we call rust in steel, wasn’t a widely understood phenomenon at the time. Although the electrochemistry of corrosion is known to have been investigated by the English chemist Robert Boyle as long ago as 1675, and by Humphrey Davy in 1824 when he demonstrated that a small piece of zinc, if attached to a large sheet of copper, would prevent it from corroding, it wasn’t until after WWI that corrosion prevention became well enough understood to be put into wide practice. The American Galvanizers Association, established in 1920, was the first industry group to lead the crusade against corrosion.

Galvanizing was patented in 1837 by the Frenchman...
New & Renewing OCCCSI Members

Thank you to the following new and renewing members:

Veronica Chocholek

Darin Coats

Charles DiGangi

Gretchen Johnson NEW Member

Keith Johnson

Joshua King

Mark Niese

Dane Olsen

Jerry Pozo

Pamela Quattrocchi

Kyle Rausch

Jacob Schmautz

David Jordan Smith

Bryan Stanley

Sandra Young

Dennis Zandrosso
Fifty or so years ago, it wasn’t difficult to see what specifiers could contribute. It also wasn’t difficult to see the value in CSI membership. At that time, commercial guide specifications didn’t exist, so firms needed people who could start with a blank sheet of paper and write a specification. Manufacturers’ literature was often inconsistent, incomplete, hard to get, and hard to understand.

For centuries, the architect’s primary tool for conveying information was the drawing. More recently, specifications were added, but it may not be long before the building model, incorporating both graphic and verbal information, becomes the single tool for communicating with the project team. I frequently find myself blaming the educational system, and I’ll do it again. By ignoring these communication tools, and by focusing on planning and pretty pictures, architecture schools not only fail to teach students what contract documents are and how they should be used; they also instill a disregard, even a disdain, for them. As architects move on in their careers, that attitude stays with them, and when forced to deal with anything other than a drawing, they don’t know where to start. All of which gives rise to a common complaint of specifiers: “No one has the time to read specifications - until they’re in trouble, when they run to the specifier and ask if there’s something there to cover their exposed derrières.”

How concerned are specifiers? How many of them will accept the challenge and work to improve and promote their value? How many will just muddle on, squinting at their monitors until their perceived value no longer justifies their existence? Are specifiers content to let others decide their futures? Or will they take action to determine their own fates? A few - Marc Chavez, Beth Stroshane, David Stutzman, John Guill, Liz O’Sullivan, and Cherise Schachter come to mind - have expressed their thoughts by blog and in convention presentations, but there has been little response. After three years of increased discussion of the business and the future of specifications (which restored the excitement I experienced at my first convention), we have but one such presentation this year.

Specifiers, do you care? Are you interested in what happens to your profession? Blogging is fine, but the convention provides a place where we can meet face-to-face, throw out ideas, and hash them out. And yes, there will be disagreement!

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

Editor’s Note: Since we are a Bi-monthly newsletter, we are a little behind with Sheldon’s monthly column.

CPSE 2015 EXHIBITORS

Woodwork Institute

passion developed 80 years ago to provide the architectural community a source to assist the preparation of both drawings and specifications. Contact: James Fitzsimmons, Number: 323-908-5466.

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Stanislaus Morel. His process included cleaning steel with hydrochloric acid before it was dipped in a bath of molten zinc. This is essentially the same process used everywhere today. The first US galvanizing plant was set up in 1870 in Jersey City, NJ and by 1883 galvanizing was used on the Brooklyn Bridge where the wires spun into the four main suspension cables were galvanized. Today the galvanizing industry has grown to the point where there are 170 plants in the US. Still, the US galvanizes only about 40% as much steel as is galvanized in Europe. In the US paint & coatings far, far surpasses galvanizing as the most commonly used rust deterrents.

The US Department of Defense Office of Corrosion Prevention is a leader in the search for the perfect coating using zinc and magnesium rich formulations and vinyl or epoxy based coatings. Increasingly, their focus has shifted from finding and stopping corrosion to developing composite materials that won’t corrode in the first place. In private industry nearly half of all corrosion engineers work in the oil and gas industry while most of the rest are employed in state departments of transportation or work for utilities companies.

The chapter that will be of most interest to architects describes the deterioration and the 1980s restoration of the Statue of Liberty in New York Harbor. The extent of the rust, including the several failed attempts over the years to stop it, and details of the extensive repairs are described. The politics that surrounded the private fundraising necessary to pay for the work are also presented, including the circumstances that lead to the firing of Lee Iacocca by President Ronald Reagan after he had raised over $277 Million for the restoration work.

Rust was written by Jonathan Waldman and was published by Simon & Schuster in 2015. It has 290 pages including a handful of photographs.
### Meeting Schedule and Information

Make reservations by the Friday preceding the meeting. Call the Chapter Hotline at (714) 434-9909

#### Upcoming Meetings:

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<td>1340 S. Sanderson Avenue</td>
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<tr>
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<td>Anaheim, California</td>
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<tr>
<th>April 1</th>
<th>Newsletter Deadline</th>
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<tbody>
<tr>
<td></td>
<td>OCCCSI Board Meeting (4:30 p.m.)</td>
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<tr>
<td></td>
<td>Thompson's Design Center</td>
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<td>1716 Case Road</td>
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<tr>
<th>April 12</th>
<th>OCCCSI Membership Meeting</th>
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<tr>
<td></td>
<td>Phoenix Club</td>
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<td>1340 S. Sanderson Avenue</td>
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