



## SPECTRUM

Newsletter of the Puget Sound Chapter CSI

### President's Message

Beth Stroshane, CSI, CCS

#### Not Silos, but Gears

Not silos, not lines and dots, but gears that must mesh to deliver a project smoothly.

Thank you to everyone who joined us for the March meeting. We had a very successful event with all sessions focusing on building performance and facilities management. While listening to Scott Pierce and Jeff Slaker at the dinner meeting I met the people that use specifications many steps after they leave design and construction firms.



I realized during the presentation that the common analogies for our industry are fundamentally flawed, even mine.

The most commonly used is silos. As in "We have to get people out of their silos to improve how project teams work together." If you have ever seen a set of silos you will see that they usually don't connect at all. If they do connect, all the material inside is the same. There is no mixing in silos. It is very challenging to introduce the idea of mixing and flowing information when using this analogy.

My analogy last month of connecting the dots is also fundamentally flawed. The numbers in the puzzle are connected in order and there is never a return trip to represent the interactive process that is inherent in our industry.

I keep coming back to gears that must interact and be intentionally matched for a machine to work. Even simple machines like bicycles depend on the gears and chains to be matched to function properly.

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#### EVENTS CALENDAR

2014-2015

#### Chapter Program Topics

[April 9, 2015](#)

Sustainability

Requirements of Materials (lunch)

[April 21, 2015](#)

ProSpec 2015

[May 21, 2015](#)

Changing Delivery Methods

[June 11, 2015](#)

Awards Reception

Envision a series of 10 gears representing the very linear and clear path of a design/bid/build project. As the finance team spins through their process, they engage with the design team, who then engages with the contractor team and the contractor team starts the facilities management people spinning.

What happens when you pull the contractor gear out and move it forward in the process? Either no teeth engage and part of the gears are left spinning in open space with little impact on the real process, or teeth do engage in a way they were not designed to and somewhere there is grinding and breaking of teeth and lots of noise and wasted energy.

I'm not an advocate of going back to design/bid/build because it has some very obvious flaws. I'm an advocate of re-designing the system so it runs effectively in its new configuration, runs with fewer broken teeth, less noise and wasted energy, and less spinning of wheels in open space.

If you feel like you are spinning, experiencing more grinding or breaking of teeth than you are used to and want to help improve understanding to make the machine run more smoothly, please join us for our next meeting.

See you there.



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## April 9th Programs

### Chapter Lunch Meeting: Sustainable Requirements of Materials

Social Time: 11:30-11:45 am, Lunch & Program: 11:45 am-1:15 pm  
\$35 members/\$40 non-members/\$25 students/\$0 sponsored students  
(after 4/6/15, prices will be additional \$10)

Our April program addressing material selection to meet sustainability requirements will be presented by Joe David, Project Manager at Point32, a Seattle real estate development company that focuses on urban projects that provide unique and lasting value to the community. Joe's recent work includes the research, coordination, and implementation of healthy building materials for the Bullitt Center. He

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has a Master's Degree in Architecture from the University of Washington and experience in the field of small-scale renewable energy systems. He will discuss the material vetting process and how to collaborate and have a dialogue with material manufacturers. Lessons learned using examples from the Bullitt Center will also be offered, so plan on attending this important meeting and bring a guest to share the CSI experience.

### **REGISTER NOW!**

#### **Tech Talk: Formatting in Word: The Mundane to the Magical**

1:20-3:20 pm

\$20 members/\$30 non-members/\$0 unemployed, students, instructors  
Styles, macros, oh my! Struggling to format specifications, meeting minutes, or any other Microsoft Word document? In tears over manually editing the same information in hundreds of files? Trying to turn manufacturer's specs into a file you can actually use? Or, worst of all, do you think Word has no capability beyond a simple writing program? Join us for an eye-opening experience led by Beth Stroshane (CCS, LEED AP), the Managing Partner at Applied Building Information, this year's PSC CSI President and Seattle's resident Macros Master (she didn't ask us to write that last part but it's well known). Beth will teach us how to use this program to its fullest, including:

1. Styles – that allow you to format hundreds of files exactly the same.
2. Macros – custom programs within Word that allow you to automate repetitive tasks like headers, footers, and formatting.

Exciting takeaways:

1. The special Express macro language that allows you to run your macros on many files at once.
2. The magic code that must be in your custom files for ARCOM Masterworks to include your files in reports.
3. The new SAVEAS macro code that makes your macros work on .docx files.

Bring your laptop, ask real questions, and change your practice forever.

### **REGISTER NOW!**

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#### [CCS](#)

**Spectrum** is published monthly as a benefit for members of the Puget Sound Chapter CSI.

Articles must be submitted by the 15th of the month for the next month's edition. Email submissions to [office@pscsci.org](mailto:office@pscsci.org).

Visit [www.pscsci.org](http://www.pscsci.org) to subscribe or to view current and back issues.

#### **LINKS**

[Northwest Region CSI](#)

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## Quick Pitches

There are openings for ten-minute Quick Pitches at our Chapter meetings next fall at a cost of \$180.00. Contact [Dick Owen](#) to sign up.





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## ProSpec 2015 is Almost Here!



Make sure April 21 is on your calendars to attend ProSpec 2015 at Bell Harbor Convention Center. The schedule of events is:

- 3:00 Seminar: Presented by Mike Purdy, Principal, Michael E. Purdy Associates
- 4:30 Tradeshow
- 6:30 Dinner
- 7:30 Featured Speaker: Shinobu Homma, Technical Director for Bing Thom Architects

If you haven't yet been invited and want to attend, log on to <https://psccsi.memberclicks.net/prospec> and click on "Interested in Attending".

If you are a vendor and haven't yet filled your table, make sure you invite that special architect or specifications writer involved with future projects that will make your business sing. See you there.



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Monitoring and Control Systems



## CSI Tri-Region Conference: "Coming Together to Build Better"



**SOUTHWEST, NORTHWEST, AND WEST REGIONS  
TRI-REGION CONFERENCE  
MAY 13-16, 2015 @ HILTON MISSION BAY RESORT in SAN  
DIEGO, CA**

[Conference sponsorships](#) and [registration](#) are available at the [San Diego Chapter website](#).\*

CSI San Diego Chapter invites you to join us in sunny San Diego California for the CSI Tri-Region Conference May 13<sup>th</sup> thru 16<sup>th</sup> 2015 at the beautiful Hilton Mission Bay Resort.

The CSI Tri-Region Conference will be jam packed with activities, networking, educational seminars, product shows, guest speakers and experiences you won't want to miss. Click on the [links](#) for additional information.

- Region board and annual meetings



- [Product Show](#) – **A few spots are still available but space is very limited.**

#### Continuing Education and CSI leadership training

- The Architectonics of Access (**CEU**) – Harold Kiewel, AIA, CSI, CCS
- Low-E Coatings for Glass (**CEU**) – PPG Architectural Glass
- Accessible Design Through Knowledge and Understanding (**CEU**) – Gregory Izor, AIA, NCARB, CASp State of California
- DSA Program (**CEU**) – Albert Wege
- Legal Matters: Reducing Risk Through Better Contracting and Construction Administration (**CEU**) – Howard Franco Jr, Esq. and Christie Swiss, Esq.
- Dealing with the Drought – Teresa Penunuri, San Diego Water Authority
- ARTIC – Building the Anaheim Regional Transportation Intermodal Center – Albert Kaneshiro, AIA, LEED VP-HOK Architects/Engineers
- Design and Construction of San Diego Airport Rental Car Center – Morton Awes, AIA, CSI
- Up-and-Coming Leaders Workshop – CSI
- Becoming a Trusted Advisor (Tips for Product Reps) – Joy Davis, CSI, CCPR
  
- [Design Challenge for Architecture Students](#)
- Local tours including the San Diego Zoo
- [AIA-CSI Golf Tournament](#)

### Reserve your hotel room and sign up today

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## March Programs Recap

### **Tech Talk 1: Facilities Management Systems & Specifications**

*By Bill Littler, CSI*

Mark Nieman, professor at Cascadia College and previously a consultant for Abacus, spoke about the following concerning HVAC systems:

Saving Energy: Equipment efficiency, run time, set points, use of outside air.

Potential Hardware Problems: The WRONG equipment being specified, equipment not being able to do what is being asked of it, specific vs. programmable controllers, can it handle the trends specified?

Demand Charges: Set Points, coordinating schedule with the owner.

Demand Controlled Ventilation: 2 position outside damper vs. proportional, CO2 alarms at low levels, RA vs SA vs. Zone (ASHRAE Standard 62.1).

Other concerns: Need for explicit diagrams that are to be followed, minimum expectations of system, ways to verify controller will perform as specified, and sequencing of operations.

Most importantly, have someone out in the field to inspect. The commissioning agent should be your eyes and ears. Remember also, it may take 1 – 2 years to fully figure out a building's operation due to seasonal issues.

## **Tech Talk 2: Metal Roof/Wall & Low-Slope Roofing Warranties**

*By Mary Ann Shepherd, CSI*

Curt Friedholdt, Building Envelope Solutions Manager at Firestone Building Products, emphasized four key points of making sure the warranty can be achieved: material selection, proper design, proper installation and maintenance. If all four of these points have not been achieved, a warranty will not make up for any one of them.

He explained the difference between three warranty types (material, labor and material, and finish warranties) and highlighted that warranties do not cover aesthetics (canning; caulk/sealant integrity and workmanship unless it is covered under labor and materials). When selecting a manufacturer, verify that they have the expertise and long-term experience, have documented program of training, educating and licensing of professional contractors to install their products, and the financial strength to be there when problems arise.

The source of more than half of roof problems is from non-warranted repairs such as not tracking who accesses the roof and determining the activity that could have caused damage (such as playing golf and creating holes in the membrane), not maintaining the caulks and sealant; checking the roof after a weather event (hail, debris, wind damage) and inspecting for potential problems that can be repaired before they get worse. Do not assume that a warranty is the be all and end all - research the warranties and make sure you understand what they do and do not cover, and ask for what you want.

## **Dinner Program: Facilities Management**

*By Beth Stroshane, CSI, CCS*

Scott Pierce and Jeff Slaker from Facilities Partners spoke at the dinner meeting about Facilities Management. They use specifications many steps after they leave design and construction firms.



The information facilities managers need from specifications is changing as fast as the materials and systems that make up buildings are changing. My main take away from the presentation is that performance criteria and intended operation are vitally important to include in the specifications for the facilities managers to understand how to operate the building. If they don't have intended performance of systems they are flying blind.

Also they are the users of the operation manuals and training specified in the project manual. If your facilities manager is on board during design, engage with them to discuss what they want submitted as operation and maintenance manuals and training.

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## Furnish, install, or provide?

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

Most architects, I believe, define the

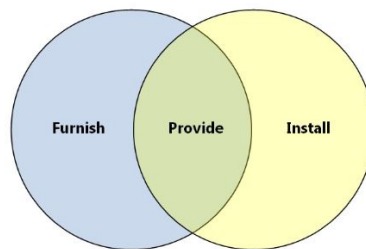
terms *furnish* (or *supply*), *install*, and *provide*, and sometimes those definitions appear in an owner's general conditions. When defined, they are part of the contract documents, and requirements using them are enforceable based

on those definitions. In practice, perhaps because the definitions are nearly ubiquitous, I have had

few problems with interpretation by contractors, or with enforcement. Oddly, it's architects who seem to have the most trouble understanding and using these definitions, even though the definitions originate in the architect's own office. In casual conversation, it's common to use *furnish* and *provide* interchangeably. This should be no surprise, as the first definition of *furnish* is either *provide* or *supply* in every definition I found, and definitions for *provide* usually are *make available*, *supply*, or *cause to be present*, all of which also define *furnish*.

[Read more >>](#)

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## About CSI

CSI is a national association of specifiers, architects, engineers, contractors, facility managers, product representatives, manufacturers, owners and others who are experts in building construction and the materials used therein. They are dedicated to improving the communication of construction information through:

- A diversified membership base of allied professionals involved in the creation and management of the built environment. Join us.
- Continuous development and transformation of standards and formats.
- Education and certification of professionals to improve project delivery processes.
- Creation of practice tools to assist users throughout the facility life-cycle. Join a CSI Practice Group.

CSI is governed by a Board of Directors, a nationally elected body that provides long-range strategic leadership. The Board is composed of nationally elected CSI officers, including the president, president-elect, two vice presidents, the secretary, and the treasurer; elected representatives (directors) from each of CSI's 10 regions; and a director at large. CSI's executive director/CEO is a corporate officer.

For more information about or to join CSI, visit [www.csinet.org/joincsi](http://www.csinet.org/joincsi), or call 800-689-2900.

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