



Knowledge for Creating and Sustaining the Built Environment

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October 2006

Portland Chapter - The Construction Specifications Institute

NW REGION CONFERENCE

October 5 - 8, 2006, Portland, Oregon

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NOTE: There will be NO October Chapter meeting.

Come see us on Nov 14, 2006 when we will discuss

Projects that Would have Changed Portland's Skyline at the Princeton Ballroom.



Very soon now, daylight will slowly begin to peek over the eastern horizon silhouetting Mt. Hood in the distance as light gradually intensifies welcoming in the crisp October morning that will begin the first day of the 2006 CSI NW Region Conference.

The conference theme is Transportation as we take "CSI to the MAX" with the help of

TriMet, one of our major conference sponsors, who is providing transit passes to come and go, and travel anywhere TriMet goes during the conference.

- The bio-reactor treats garbage on site and is only the second such installation in the US.
Photovoltaics installed on the sunshades generate electricity while controlling the natural light that pours into the building.
A solar trombe wall works with the displaced air system with fin tubes to control the interior environment.
The Salt Pure system keeps the pool clean with naturally produced chlorine from salt.
Garden terraces provide an outdoor respite for patients and their families
The atrium welcomes everyone with 66 custom hand-blown globes with a fiber optics display.

Saturday's lunch speaker, Interface Engineering's Andy Frichtl, will explain how to attain "Platinum on a Budget" through application of proven integrated design principles for your next green building project, while achieving high-performance results on a conventional budget as he did at the OHSU River Campus.

This year's conference also boasts more learning sessions than ever before, providing greater variety for attendees, with three separate learning tracks. A whole year of continuing education credits for Oregon licensure may be obtain in just one weekend's (Friday and Saturday's) learning sessions, including the hard to get Health Safety and Welfare credits.

PRESIDENT'S MESSAGE

By Doug Allen, CSI, CDT



Apologies: In my column last month I miss specified one of our dedicated co-chairs for the Portland Products and Services Fair. To assist with the event or find out more information on this year's fair, please contact Ed Maccisak in lieu of Fred Larson. Sorry for my confusion.

Opportunity: Don't forget! In place of this month's October

dinner meeting we have the spectacular NW Region Conference right here in beautiful Portland, Oregon. In one month, members will have the good fortune of two dinner opportunities, lunches, breakfasts, and of course the exciting Hospitality Suite to come out and socialize with friends at CSI! Imagine the networking possibilities. Professional and Industry members from all over the region will be in attendance, providing another element of "Efficiency in Transportation" for all who attend. This is a unique opportunity to spend two or three relaxing days with a variety of clients and colleagues. This only happens once a year, and only once every six or seven years is it in our own backyard!

The conference isn't intimidating. Everyone is very friendly and looking for information and solutions. The continuing education opportunities offered could complete your needs for the year in just a couple days.

Formulate your plan of action and get in contact with Jane for conference registration or to sign up for dinner-only events.

Deadlines: Registration for the March 31, 2007 National Certification Exams is open. Don't miss the discounted early registration deadline of December 1, 2006. The final registration enrollment date is January 31, 2007. Schedules for invaluable Chapter-offered training classes will be announced soon.

Summer Activity: The age old back to school question: what did you do this summer? My weekends and spare time have been devoted to a little construction project at home. As you may know, I have horses. The horses are much more useful if they have shelter during the winter months. Getting a muddy wet horse ready for an hour long ride, turns out to be at least an hour of clean up before you want to begin thinking about putting your tack on them. So my beautiful bride Judy and I are in the process of providing that shelter by constructing a pole barn. We did this before at our last home, so no big deal, right? We had a pretty good idea of what we were getting into. But, of course, this one must be bigger! Room for growth, bigger aisle ways, and while we're at it, why not include a covered riding arena? So, I started pricing out packages and materials. After the sticker shock, Judy and I realized it wasn't going to get any cheaper to wait. We also realized we wouldn't be able to afford to hire someone to do the work either. So last summer we started the grading for our pole barn which now has grown to be about 88' x 108' in size. Then in October 2005 we drilled 48 holes in the ground, two feet in diameter and about five feet deep. (Now, that is a pile of dirt to move later...) We only hit three boulders that caused our auger to shift off course. One of these boulders ended up right in the

middle of a post. I would have moved the barn to clear it, but I had already drilled about 30 of the holes. We spent about three days getting this boulder out of the ground. I think it took at least a yard of concrete to back fill the post in place. Of course, construction pretty much halted when we had record rainfall in December and January. It isn't very easy to pour cement footings in the bottom of holes that are literally overflowing with rainwater. As you might imagine, nature's forces weren't finished with us yet. Our original twenty-four inch holes turned out to be about twenty-eight inch diameter due to erosion. Yep, more concrete was needed. Change order?

Concrete: Once the posts were in place and braced, we back filled them with concrete. That was the easy part; I used an onsite mixing truck that drove around to nearly each hole. Much easier than my first plan to back fill with 5/8" minus crushed rock, which the lumber supplier recommended. But, what was the spec on the concrete? I am sure there is more to it, but I was told it was 4000 psi mix. Could I prove it with anything, other than what was written on the receipt?

Pressure treated posts: I did make sure they were rated for ground contact. However, I later learned there are different types of preservatives. I'm not sure which I have, although the tags are still stapled to the top of the posts. Only problem is they are 18 feet in the air. When I climb up to put on the roof, I'll have to check and make a note of it.

Sheet steel roofing: Yep, I've got some. I looked around in the market for steel roofing, mostly at the major lumber suppliers. I found a source that rolls panels and sells direct to the public at a pretty attractive price. I was a little suspicious, but they said the paint had a 20-year warranty. That built some confidence, so I ordered up about 3500 lineal feet of metal and 8000 screws. When I went to pick up the material, it dawned on me that I hadn't asked about galvanizing under the paint. If I had been specifying steel doors it would have been automatic. But for some reason, it didn't come to mind on painted roofing. They later assured me it was galvanized, but to what thickness or spec they really were not sure...

The structure is turning out well thanks to our good friend Pythagoras and his "3-4-5" squaring formula. Oh, and my handy 5-beam laser.

However, reflecting on these challenges, I realize I have neglected to utilize our precious resources in the CSI community. I should have consulted with some of our members to make sure I wasn't omitting any critical elements that could impact the quality and longevity of the structure. CSI membership provides us all with a wealth of knowledge just a phone call away.



WHAT DO YOU SAY? .. News and views from the Specifiers Share Group

By: Tony Sipe CSI, CDT Architectural Representative for Armstrong World Industries

New Code Changes for Suspended Ceilings City of Portland and the State of Oregon issue prescriptive designs.

In September I presented the latest prescriptive design changes for suspended ceilings to the Specifier's Share Group. This is a summary of the information I gave.

What is Prescriptive Design?

It's a tool which creates a prescriptive alternate to engineered designs for suspended ceilings. That means it is the minimum acceptable design standard for satisfying the increased lateral restraint requirements of the IBC.

This design takes into effect the Seismic Design Category and Seismic Use Category. Seismic Design is broken up into categories A, B, C, and D, E, F. This can be found by contacting your local building department. The Seismic Use Category is determined by whether the building or other structure will represent a substantial hazard to human life in the event of a failure. It is categorized as I, II or III. (Verify as defined in Table 1604.5 of the building code).

The City of Portland prescriptive design standards went into effect May 1, 2006 (Seismic Zone "D").

The following is What's New & What's Not.

What's not new.

Hanger & perimeter wire requirements are the same as the previous code.

Compression strut & stabilizer member requirements are the same as the previous code.

Requirements for splay wires used for lateral bracing are the same as in previous code.

Fixture support and slack wire requirements are the same as in previous code.

What's new.

Ceiling systems shall be classified as "Heavy Duty" as defined by ASTM C 635-00

Two inch wall angle required.

Grid required to be attached to wall angle on two adjacent sides.

Grid to be installed to allow 3/4 inch of lateral movement in two directions.

Ceilings are limited to 2500 sq. ft. of undivided area.

Sprinklers and other similar penetrations of the ceiling are required to have the capability of one inch of lateral movement in all directions without contacting the ceiling panels.

Allow the use of engineered rigid brace in lieu of splay wires to limit the movement of the ceiling to 1/4 inch and to reduce the annular space around penetrations to 1/4 inch.

Special inspections are only occasionally required for installation of suspended ceilings.

State of Oregon

As of August 23, 2006 the State of Oregon has created the following minimum standards:

Seismic Design Category "C" will be constructed according to CISCA 0-2.

Seismic Design Category "D through F" will be constructed using CISCA 3-4.

Final notes

The brief summary above is for information purposes only. For additional information, please check the websites below or email me at alsipe@armstrong.com

www.portlandonline.com/bds

<http://bcd.oregon.gov/>

www.armstrong.com/seismic

www.nwcb.org

On another note:

Oregon Statewide Code Interpretation Seminar
Suspended Ceiling Systems

In 2004, the state of Oregon adopted the International Building Code. With its adoption, code interpretations for the use of suspended ceilings have been confusing at best. Issues such as seismic design categories, lateral force bracing and the appropriate use of powder driven pins have been just a few of the hot button topics. Recently, Oregon's Building Codes Division finalized statewide construction requirements for the installation of suspended ceilings. Join us as we review this code guideline that local jurisdictions will be referencing. This will impact design and plan review as well as jobsite inspections. On hand to help with our understanding will be Richards Rogers, Structural Program Chief for the state of Oregon and Ravindra Mahajan, Code Facilities Engineer for the State of Oregon. *The seminar is scheduled for October 4 in Portland Oregon. Email: Oregon@nwcb.org for more information.*

PERKY'S NOTES

By: *Perky Kilbourn, CSI*



First note: *The e-mail Epidemic*
I am a “Dilbert Fan” and Dilbert cartoons frequently appear in the scientific magazines I read. The most recent Dilbert Cartoon, which I would like to share, shows Dilbert examining his computer. Dilbert is telling his dog that that he is addicted to e-mail. Dilbert adds that his endorphins spike when he gets an e-mail message. Endorphins are

substances which are released when a person is happy. Dilbert’s dog then asks if Dilbert has tried sending e-mail to himself. Dilbert’s response is: “We don’t talk about that.” Suggesting that Dilbert had in fact sent himself e-mails. Which gets me to ask the question – What does the number of e-mails a person receive mean? More e-mails means the person is more important?

Second Note: *Role of Engineers*

A person by the name of Hugh Nibley is supposed to have said that many engineers have a drive to create and of the goods which they create there are two categories. Engineers create goods to express their creativity. Engineers also create goods to make money for the company for which they work which results in more money to them. Engineers need recognition and a clear vision of how the goods (products which they create) will fit into the marketplace. Once engineers see that they are appreciated by a company they will continue to have fun creating new amazing products that make lots of money for the company.

Third Note: *The Genographic Project*

The Genographic Project is a global, five year research initiative which was launched by the National Geographic and IBM. Its purpose is to trace the migratory history of the human species. Applied Biosystems will provide the laboratory research equipment and services to each of 10 participating global research centers. Members of the general public can take part in the project by purchasing a Genographic Project Public Participation Kit and submitting their own cheek swab sample, enabling them to track the overall progress of the project as well as learn their own migration history. For more information about the project, visit www.nationalgeographic.com/genographic.

Fourth Note: *Story about Katrina*

In the Fall 2006 issue of YES! magazine is an article “Where FEMA feared to Tread” by Tim Shorrock. In this article Tim discusses the New Orleans’ Algiers neighborhood. Apparently, the Algiers neighborhood did not have water in the streets but they did have extensive damage to roofs, toppled trees and power lines. The National Guard imposed a mandatory dawn-to-dusk curfew and huge trucks were running supplies here and there and helicopters were surveying the situation. A resident of Algiers commented in the article that it was a war zone until four young people on bicycles showed up and started knocking on doors asking if anyone needed medical attention. They were not from the Red Cross or FEMA but just volunteers who had come without authorization. They offered first aid, took blood pressure,

tested for diabetes and inquired about symptoms of anxiety, depression and disease. This Common Ground Collective was composed of white kids serving the black community and they wanted to provide solidarity and health care not charity. Among the many things they accomplish was that they were able to set up a clinic which continues to flourish in the Algiers neighborhood.

Fifth Note: *Jobs in Puerto Rico*

Randy Hice is the President of the Laboratory Expertise Center and wrote a column entitled “Mojoito Madness” for the July, 2006 issue of Scientific Computing magazine. Apparently, Randy Hice was in Puerto Rico at the time he was preparing this column. Hice wanted a Mojito and couldn’t find a bar to give him one until he found a restaurant called Mojito’s just outside of San Juan. While drinking his mojito he thought about the fact that formerly, Puerto Rico was a great place to work. Removing the IRS Possessions Tax Credit - Section 936 created problems. This exempted U.S. corporations from paying federal income tax on profits generated by qualified Puerto Rican subsidiaries. When this tax break was removed Puerto Rico lost more than 18% of its manufacturing positions. There are some stopgap measures being discussed but they may not help Puerto Rico especially if a pro-United States government is establish in Cuba after Castro dies.

Sixth Note: *Interoperability of EHR and the law*

EHR stands for Electronic Health Record. The Stark Law prohibited physician self referral. In April 2004 President Bush called for the majority of Americans to have interoperable EHRs with the Stark Law within 10 years. The Centers for Medicare and Medicaid Services, the Office of the Inspector General of the U. S. Department of Health and Human Service and Congress have been working on interoperability for the last two years but progress is slow. Congress and the U.S. Department of Health and Human Services have encouraged the development of EHR networks by creating broad exceptions to the Stark Law. Hopefully the new rules represent significant practical improvement in EHR for the physicians.

Seventh Note: *Innovative thinking about Healthcare*

Innovation creates easier-to-use diagnostic instruments with lower purchase prices. Test which were once restricted to inpatient procedures can now be performed in a physician office. Some diagnostic tests are now appearing as over-the-counter testing kits. Radiology and laboratory services are being marketed directly to consumers. “Wellness clinics” are beginning to be located near retail pharmacies, supermarkets and big box retail outlets. SmartCare Family Medical Centers are opening retail clinics and negotiating a partnership agreement with two divisions of supermarket Kroger as well as a letter of intent with Wal-Mart. Since Kroger owns Fred Meyer, one should watch the local stores for SmartCare Family Medical Centers.

(continued pg 5)

NW REGION CONFERENCE

(Continued from front page)



The pre-conference activities on Thursday are another opportunity to have fun and relax on the beautiful Eastmoreland Golf Course, or take an underground tour of Portland's Shanghai Tunnels to learn some of the not so nice history of Portland, or

travel to the "Red Hills" of Dundee to sample some of the best wines Oregon has to offer. Thursday evening join us for an early evening pub and art crawl as you move through the streets of Portland on a scavenger hunt during Portland's First Thursday Festivities. Then there is the "Hospitality Suite" nightly, until midnight, to meet old friends and make new ones. If you're not having fun then you're not at the 2006 CSI NW Region Conference.

PERKY'S NOTES

(Continued from page 4)

Eighth Note – Higher Education and Business Computers Mobile Computing and communication devices are valued possessions of returning students. Students are demanding that schools transform campus wireless networks from hotspot convenience services into critical network infrastructures. Laptops or notebook computers are used to take class notes and for group meetings about group projects. Campus Information Technology is working on Wi-Fi infrastructure and network access control, as well as mobility, security, scalability and guest access. Students are not spending money for mobile cellular broadband service. Students are buying smartphones which take advantage of their converged device enhancement and mobile broadband services. Similarly, some employees may want to use their personal smartphones and laptops for business. Information Technology Managers must decide whether to have separate remote access architectures for smartphones and laptops. The Information Technology manager also needs to think about Security of "Trade Secrets" if an employee can use their own laptop and smartphone at work.

SEPTEMBER TOUR RECAP

By: *Perky Kilbourn & Ellen Onstad*

On September 12, 2006 Portland Chapter CSI took a tour of historic Portland Armory. At the end of September 2006 this building will be the new space for Portland Center Stage. The Oregon National Guard Armory was constructed in 1891. It was designed in what is known as the Castellated Style with turrets and gun or arrow portals. It has wooden vaulted barrel parallel chord trusses which allow for the building's flexibility and thus its adaptability to its current use as a 21st century state-of-the-art performance facility. In 2003 the roof structure was removed and replaced with steel joists, steel decking and new insulation and roofing. In 2004 the exterior was refurbished, masonry cleaned, structural reinforcement of the parapet elements added. A 28 foot deep basement with shoring walls 8 feet from edge of unreinforced masonry walls and the matt footing of the new Henry condominium foundation was added.

The Tour consisted of eight stops, each of which showed a different interesting design feature. Our first stop was the main lobby with a discussion of the overall design and the efforts which have been expended in expectation of obtaining a platinum LEED (Leadership in Energy and Environmental Design) rating. Our second stop was the Balcony Mezzanine with the specific feature being the shoring of the new Henry condominium. Our third stop was the Audio/Visual Room and the Control Panel. The Control

Panel has a large set of controls, with each control being electrically connected to a specific effect. The Balcony Admin Area was our fourth stop and featured active chilled beam heating and cooling with integral light fixtures. Our fifth stop was in the Rehearsal Space where a skylight demonstrated the ability of sunlight to illuminate some of the interior spaces. Our sixth and seventh locations were the two stages. We were allowed to walk on both the Center Stage Theater and the Black Box - Studio Theater Stage. We saw what the actors will see during rehearsals – empty seats - which will hopefully be filled by the audience for a performance. Our eighth location was at the Lower Mezzanine level where we admired the stainless steel railings.

We then walked over to the Paragon for a delicious pot roast dinner. This is a wonderful space and hopefully those that missed the tour will take an opportunity to see a performance at the New Gerding Theater at the Armory. It's a great place.

Thanks to Ford Graphics we raffled two tickets to the first play at the theatre Westside Story and the winner was Mark Cooney with Hubbell Wiring Systems.

CSI MEMBERSHIP A VALUE

By: Robert W. Simmons, CSI, CDT, MAI

As a new career member of CSI working in a professional design firm or for a manufacturer or supplier of construction products, CSI can be your professional development program that will help you get your continuing education or learning units. CSI can also help you become a certified professional with a CCS, CCCA, or a CCPR, which gives you the understanding of the construction process that is required in the construction industry, as well as the opportunity to build your expertise and that next career opportunity. That opportunity may be in the form of a salary increase, a bonus or a perk that helps you continue to further your career with your current employment.

CSI's continuing education programs at the chapter, region or Institute levels will assist you in staying ahead of market trends in new products, codes or new construction designs. As a member of CSI, the amount of educational exposure you receive for the CSI membership fee and chapter dues that you pay each year is far less than what your employer would spend sending you to an outside design class or to a University workshop for any period of time.

CSI is a resource for professional development. These educational courses can be given at the chapter, region and Institute level for the price of a membership in CSI and your chapter. The CSI certification programs that you will be able to participate in help you as a professional and industry member to understand and support the construction industry requirements.

CSI membership will also give you access and exposure to owners, contractors, suppliers, and Architectural and Engineering firms that make up the project team on any given construction project. Through your CSI membership, CSI will be a valuable resource for your professional development. It will help give you the tools that you need to advance your professional career, help you develop your leadership abilities and keep you on top of the industry changes to establish a long career in the construction industry.

VALUE OF A CSI MEMBERSHIP

From CSI Website

The Elevator Speech

Ever been blamed for a project that went way over budget because the construction documents weren't prepared or interpreted correctly?

Do you think it would make life easier if everyone involved in a construction project was "on the same page" throughout the entire construction process of design, documentation, administration, and delivery?

Do you want to know how to do your job better?

CSI allows for the vertical integration of construction communication, and can help you make connections and facilitate discussion among all of the project team participants.

More communication means less errors and less money lost.

Along with the project team members communicating, CSI offers industry standard technical publications to improve clear documentation and communication. If everyone's writing documents the same way, then everyone can interpret the documents the same way they were intended.

Better documents means less errors and less money lost.

CSI also offers continuing education programs and the CSI Show to help you learn the latest industry advances to help you do your job better. CSI certification helps you implement construction documents, contract administration and project delivery on par with industry standards and practices.

Doing your job better means less errors and less money lost.

Some may say though, that the greatest part of CSI is belonging to a chapter. It offers you education, networking, resources, and leadership opportunities. Being a part of your local CSI chapter lets you really take part in the industry conversation.

Taking part means moving you and the industry forward."

To see the article go to: <http://www.csinet.org/s/csi/sec.asp?TRACKID=&sid=1&DID=13391&CID=66>

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 Dave Walter, CSI.....425-774-7704

Mt. Rainier, Tacoma, WA (First Thursday)
 Jeff Herrmann, CSI,CDT.....253-756-8191

Spokane, WA (Second Thursday)
 Jim Devaney, CSI..... 509- 953-1719

Portland, OR (Second Tuesday)
 Jane Phifer, CSI.....503-805-2500

Capital, Salem, OR (Third Thursday)
 Chris Veit, CSI, CCS.....503-390-0291

Willamette Valley, Eugene, OR (Last Thursday)
 Doug Mullican, CSI, CCCA.....541-687-9451

Idaho, Boise, ID (First Tuesday)
 Steven Turney, CSI, CDT.....208-345-8872

Big Sky, MT
 Jan O'Brien, CSI.....406-245-6363

October 2006

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- 10/3 CSI Board Meeting, *Noon, AIA Office*
- 10/5-10/7 **CSI NW Region Conference**
- 10/10 No CSI Chapter Meeting - join us at the NW Region Conference**
- 10/12 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 10/16 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*
- 10/26 CSI Specifiers Share Group Meeting, *Noon, ZGF*

NO OCTOBER CHAPTER MEETING

November 2006

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

- 11/7 CSI Board Meeting, *Noon, AIA Office*
- 11/9 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 11/11 **CSI Chapter Meeting, *Projects that would have changed the Portland skyline, Princeton Ballroom***
- 11/20 CSI Membership meeting, *Noon*
- 11/23 Happy Thanksgiving