



Knowledge for Creating
and Sustaining
the Built Environment



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Portland Chapter - The Construction Specifications Institute

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TOUR OF HISTORIC PORTLAND ARMORY

Tuesday, September 12, 2006



The Portland Chapter of CSI is very excited to start off our 2006 – 2007 program season with a tour of the Bob and Diana Gerding Theater in the historic Portland Armory.

For the last 16 years, Portland Center Stage has been a tenant and resident company in the Portland Center for the Performing Arts' New Theater Building. It's a beautiful, well-equipped facility—and yet inappropriate to meet the needs of today's regional theater.

With the *Center Stage in the Pearl Campaign*, Portland Center Stage embarked on an exciting project that transformed the historic Portland Armory building, constructed more than 100 years ago, into a wonderful new 21st century state-of-the-art performance hall. It is also a pioneering example of sustainable

“green building” design as their goal is to accomplish the first historic rehabilitation in the world to achieve a LEED Leadership in Energy and Environmental Design Platinum rating.

GBD Architects, working with nationally renowned theater consultants, Landry & Bogan, designers of the Angus Bowmer Theater in Ashland, Oregon and the Seattle Children's Theater, have created a space that includes:

- A 599-seat theater that will be the company's Main Stage, plus a 200-seat “black box” theater that will serve as a Second Stage;
- A rehearsal hall that can also provide space for workshops, lectures, and events;
- Spaces for the costume shop, artists' dressing rooms, administrative offices, and ticket office;
- A friendly lobby that will be open and inviting to the neighborhood, theater patrons and visitors, and will include interactive elements that tell the story of the building's history and sustainable design.

The Bob and Diana Gerding Theater in the historic Portland Armory brings Portland a state-of-the-art performance facility. It also provides a model, unique in the world, for integrating “green building” design into a historic rehabilitation, helping to confirm Portland's reputation for innovation. To read more on the Portland Armory project go to www.pcs.org

Please join us **Tuesday, September 12, 2006 at 4:30 to tour this facility.** Representatives from Hoffman Construction, GBD Architects, Glumac International, DeaMor Skylights, KPFF Structural Engineers, Hanset Stainless and Portland Center Stage will be “tour stops” describing the design elements and construction processes. **Meet us at 128 NW 11th Avenue in the front of the building at 4:30.** *Dinner following the tour will be at The Paragon restaurant just a couple blocks from the project site. Tour & Dinner will be \$45.00.*

Two tickets to the Portland Center Stage first theatrical production, “Westside Story” will be given away (compliments of Ford Graphics).

Thanks to the following sponsors: Hanset Stainless & Hoffman Construction
Assure your spot for this special event! See enclosed Event Reservation Form

PRESIDENT'S MESSAGE

By Doug Allen, CSI



Greetings, Portland Chapter CSI!

First I want to thank you for the opportunity to serve as your president for the year. Following in Mr. Latham and his predecessors' shoes will be difficult. They have all set the bar high. However, with the help of so many hard working volunteers, a great Board of Directors, and so many experienced mentors guiding

us, I am confident we can continue our chapter's successful trend toward a year of growth, education, exciting events, and a lot of fun times.

So let's get to it, because you are in for a real treat! Our dedicated committees have been hard at work throughout the summer preparing for the coming year. There will be numerous opportunities to promote our products and services, for networking, continuing education, and service to the industry.

As you are aware the Portland Chapter CSI is hosting "CSI TO THE MAX" welcoming the NW Region Conference here in Portland, Oregon. Mark your calendars for October 5th through the 8th. There are way too many activities planned to mention here. Check out all the incredible opportunities at <http://www.portlandcsi.org/conference.html>. Our local members will have an unusual opportunity for networking at the conference. Plan ahead and make the most of this rare occasion by making a call to a friend, colleague, or client and inviting them to participate at an event with you. There are still a few sponsorship and volunteer opportunities available. Please contact Russ Pitkin for details or to offer assistance.

Our amazing Programs Committee will continue to dazzle us with great dinner meetings this year. Our calendar is nearly complete for the year. So continue to look forward to the second Tuesday of each month as your CSI night out. You won't regret it! The group is always looking for additional committee members for ideas and assistance in putting together the details of the meeting. Participation on this committee offers incredible networking opportunities; Kaye would love to hear from you.

Thank you to Cherie and Tom McNabb for hosting our Annual Summer Planning session at their beautiful home. The session was productive thanks to a very relaxing friendly atmosphere. There were a lot of great ideas which we narrowed down to three or four goals on which to focus for the year. It was incredible to have so many people together with such a passion for the organization. Cherie and Jane organized a great lunch and barbeque dinner for those that wanted to hang around for socializing and a very competitive pickle-ball match.

Our Website and Publications committee are working together for a more cooperative consistent presentation to membership and the industry. Migration to electronic distribution of The Predator has been well received. It has given us more flexibility and most importantly cost containment through the recent increase in nearly all goods and services. Hopefully we have spared a tree and

saved everyone time looking for the newsletter. It is always in the same place now. Corey and Jane have already made quite a few improvements to the website over the past year and there are more to come. You can see their work at <http://www.portlandcsi.org>. There are already advertising opportunities available now, and hopefully more to come with some great ideas Cherie McNabb is working on. The website use will grow to be an important tool for our members and a construction community resource. Contact Corey or Jane with ideas or to assist.

The Certification Committee has some exciting things going on. They are working on organizing classes and study groups for certification beyond CDT. If you have ideas or would like to help they are recruiting instructors and committee members to assist with class supervision and organization. Contact Christine Steel for more information.

The CSI Portland Products and Services Fair had their wrap up session this summer to evaluate the 2006 fair for possible improvements next year. A major change for the committee is its leadership. After many years of providing us with very successful shows, Cherie and Cornelia have asked someone else to step in. Fortunately, we have two experienced organizers, Fred Larson and Brian Setness who will now co-chair the committee. The committee is already creating some exciting ideas for the 2007 show! Don't hesitate to contact Brian or Fred with ideas or to volunteer. There will be a lot to do over the coming months.

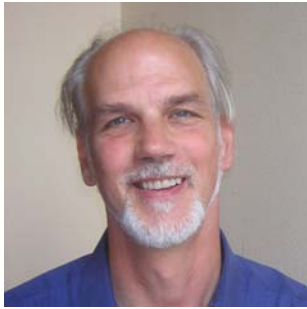
Membership in itself is incredible. The CSI Portland Chapter is one of the largest in the country thanks to Lee and Pat's efforts as co-chairs of the membership committee. They recently organized a very successful meeting with Ankrom Moisan to encourage growth and participation in the chapter. If you are interested in helping pay for your membership dues by sponsoring a new member, contact Lee or Pat for information.

An Integration meeting was organized by Zachary Suchara, president elect for Illuminating Engineering Society Oregon to evaluate the possibilities of the local societies coordinating efforts and information. The first meeting was attended by Zachary Suchara; Douglas Benson of American Institute of Architects, Portland; Emma Gordon of American Society of Heating, Refrigerating and Air-conditioning Engineers, Portland; Rob Kistler of Building Enclosure Council, Portland; and Doug Allen of Construction Specifications Institute, Portland. The group had a great discussion on possibilities and will continue to meet throughout the year. The first goal is to have a common calendar up and linkable for each society by September 15th.

As you can see, there are plenty of things going on. It has been said, "CSI is not a Spectator Sport." You will get the most out of your membership by selecting a committee and volunteering. There is a quite diverse list of opportunities in addition to those I have mentioned. In the back of The Predator there is a full list of committees. This is a relationship industry. Information is requested and transferred between professionals and industry members every day. Start building on your relationships now the easy way. Get involved.

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

By: Fred Herbold, CSI, CCS



Exterior Wood Stains

In June Randy Tessman, CSI CDT, architectural representative for Benjamin Moore Paints, presented his seminar about exterior stains for wood to the Specifier's Share Group. This is a summary of the very useful information Randy gave us.

Stain versus Paint

When a stain is selected for wood finish, rather than paint, usually there is a desire to expose the grain or texture of the wood. Stains are formulated to do this by penetrating the wood, leaving various amounts of material on the surface that modify the surface appearance. Stains are normally applied in one coat, without a primer.

Paints are intended to form a film on the surface of wood. They are applied with a primer (which seals the wood) and one or two top coats. Paints will hide the texture of all but heavily textured wood.

Stains require more maintenance, restaining more often, than paints.

Stain Resins

Natural Oils: linseed oil, tung oil and soya oil.

Synthetic Oils and Resins: Alkyds, Polyurethane, Silicone.

Waterborne Resins: Acrylic, Modified acrylic, latex.

Types of Stain

Clear Water Repellent: These products are designed to penetrate into the wood without significantly changing its appearance. They usually contain paraffin and mineral spirits. Many also contain mildewcides and insecticides for added protection of wood. Their expected life is between 6 months and 2 years.

Toned Water Repellent: Pigments are added to water repellents to modify or stabilize the color of wood. The pigments increase durability by adding UV protection. Their expected life is 1 to 3 years.

Semi-Transparent Stain: This type has a resin base and pigments and is penetrating. Best performers are based on oil; waterborne semi-transparent stains do not penetrate well. Semi-transparent allow the wood grain to show through, and they can be custom tinted. One should anticipate reapplying semi-transparent stain in 1 to 3 years.

Semi-Solid Stain: With more body and more pigment than semi-transparent stains, semi-solids still allow wood texture to show through. They provide more UV protection and can be machine tinted. They can be applied over semi-transparent stain with stripping. Their life expectancy is 2 to 4 years.

Solid Color Stain: Wood texture shows through solid color stains, but any color variation will be hidden. With the greatest amount of pigment of all, solid color stains provide the greatest UV protection and have the greatest durability, 5 to 10 years. Best performers of this type are pure acrylics.

Hardwood Stain: Special stains formulated to preserve the color or prevent graying of teak, mahogany and ipe are of this type.

Applying Stains – Helpful Hints

Usually specifications will rely on “follow manufacturer’s instructions” or “comply with quality standard” for application of paints and stains. Even so, specific precautions may be called for.

New Wood: Remove mildew with a solution of diluted sodium hypochlorite or sodium metasilicate. Remove rust and tannin stains with solution of oxalic acid and citric acid. Bleed wood may require a primer. Preserved wood should be specified kiln dried after treatment.

Weathered Wood: Forest Products Laboratory no longer recommends pre-weathering wood before treatment (staining). Treat weathered wood same as for mildew.

Application: Work from top down; stain in direction of grain; work down on shingles, work side to side 3 to 5 horizontal siding boards at a time. Stain building elements in the following order: Eaves – Fascia – Body – Trim – Doors.

Specifiers Note

MPI: Those of us who rely greatly on Master Painters Institute for our specifications must be careful when specifying semi-solid and water repellants for wood. I find that MPI includes semi-transparent stain and solid color stain, but not other types. One should clearly indicate this exception to the quality standard if it is MPI.

Many thanks to Randy and our other presenters at the Specifiers' Share Group. It's been a great year. I hope you all are having a fine summer. We're looking forward to another interesting and educational year with the Share Group.

PERKY'S NOTES

By: Perky Kilbourn, CSI



Note #1 - Sigma XI was founded in 1886 as an honor society for scientists and engineers. A letter from the national president, James F. Baur, was published in the July/August 2006 issue of *American Scientist*. The letter had some suggestions which I thought might apply to Portland Chapter CSI.

President's Advisory Council

The President's Advisory Council is made up of the elected officers plus committee chairs and any active or retired member or enthusiastic nonmember able to attend *program-planning sessions*. At these *program planning sessions* advice and opinions are solicited with the strict promise that no one will be coerced into unwanted obligations. This sounds like the "2006/2007 Planning Session" of Portland Chapter CSI – please see my report elsewhere in this issue of *The Predicator*. It sounds like Baur is suggesting that these *program planning sessions* happen more than once a year.

Office terms – not one year! - suggesting the practice of electing a president every two years and encouraging multiple reelections. After a year of "learning the ropes," the second and subsequent years are manageable and even fun. Treasurers and secretaries should be encouraged to be elected for an indefinite term, with four to eight years as a fruitful service period.

Past presidents' insight – Gather all past chapter presidents every four years or so for a relaxing lunch and efficiently orchestrated discussion of past successes and failures with the idea of providing considered and tested advice to present officers. Maybe this could be a chapter meeting with the past presidents being a panel who would accept questions from the members.

Retired members are productive members – Ask people who are recently and not-so-recently retired members to take positions of influence and leadership in a chapter.

Critical mass – say 40 – Baur suggests that around 40 is the critical mass for a viable and vital chapter. The active membership of Portland Chapter CSI is probably 40.

Discover 40 and 50 year members – Forty and 50 year members of Portland Chapter CSI are honored when get their chevron denoting years of membership. Ask these members to give a four minute response to the chevron presentation by describing their career triumphs.

Involve the host – This is sort of what CSI does with the Industry members by asking them to have table top displays at meetings and the Products Fair.

Note #2 - The July, 2006 issue of *The Scientist* had an interesting article entitled "Living Batteries" by Jack Lucentini. Over 40 years ago, I had a student who was working with me on making Microbial Fuel Cells using microorganisms to generate an electric current. We were not successful enough to publish our results but it seems others have been working on the same idea. Specifically some bacteria are able to extract electrons from an organic fuel such as carbohydrates, proteins, or raw sewage, and then deliver the electrons to an electrical circuit.

In 1999 Byung Hong Kim at the Korea institute of Science and Technology in Seoul showed that an iron-reducing bacterium recently discovered in a rice paddy, *Shewanella oneidensis*, could pass electrons to an anode on its own, possibly through direct contact. The bacterium apparently evolved this ability because its natural electron acceptor, FE(III) is insoluble in its habitat.

Other reports have been published on an array of metal reducing bacteria which could perform similar feats. The most successful Bacterial Fuel Cell is the Benthic Unattended Generator or BUG. Clare Reimers of Oregon State University and Leonard M. Tender at the Naval Research Laboratory created fuel cells which generate about one watt of electricity which is enough to power small scientific instruments such as temperature or pressure gauges.

The highest power output which has been reported for an experimental, sewage fueled fuel cells is 464 milliWatts per square meter of anode surface. That is about half number of one watt per square meter, which researchers estimate would constitute economic viability

In concluding, scientists are selecting for bacteria which can delivered electrons to the anode of the microbial fuel cell more efficiently. Unfortunately, there is still a lack of understanding of how to optimize the microbial fuel cells. Many scientists feel that they will be able to make a commercially viable microbial fuel cell some time in the future.

NW REGION CONFERENCE

Sponsorship: The above warning went out earlier to potential sponsors and now there are some disappointed product representatives who were not able to get the sponsorship opportunity they were planning on because they waited too long. We are, however, talking to the hotel about additional space opportunities for more Hawthorne Bridge “Table Top Display” Packages. If you are one of those disappointed by the Hawthorne Bridge selling out, please stay tuned, and call Jane to get on a waiting list just in case we can work out more space with the hotel. If space becomes available, we will accommodate those in the order we receive your request.

There are still a limited number of sponsorships remaining for the Morrison, Broadway and Burnside Packages. Those sponsors who love to golf will be happy to hear that there are still opportunities to sponsor the golf tournament through purchase of a Broadway Bridge Package.

Wine Tour: The tour will be on the morning of October 5th, from 9:00 am to approximately 4:30 pm with a catered lunch provided.

Although grapes were not indigenous to the Pacific Northwest, the earliest plantings date back as far as 1847. The real beginnings of Oregon’s wine industry go back to the early 1960’s. A few individuals, who came from a variety of backgrounds, shared a common vision and passion for planting vineyards and creating Burgundy style wines. Oregon was put on the map in 1979, when David Lett (founder of Eyrie Vineyards) won third place in the international pinot noir competition, competing with Burgundy’s best. Today, Oregon is home to around 300 wineries, with seventy percent located in the Willamette Valley.

The best way to truly experience and enjoy Oregon wines is to visit the source. While there are many from which to choose, the following sites were chosen as a sampling of both wine styles (from sparkling wines to Bordeaux style reds) and architectural design and character.

Rex Hill Winery (<http://www.rexhill.com>)

Argyle: (<http://www.argylewinery.com>)

Maresh Red Barn: (<http://www.vineyardretreat.com>)

Stoller Vineyards: (<http://www.stollervineyards.com>)

Cuneo Cellars: (<http://www.cuneocellars.com>)

More information can be found on the NW Region Website at www.csinwr.com.

Conference Program: The conference will begin on Friday, October 6th, at 8:00am, right after a continental breakfast. The conference theme of transportation, and more specifically “The Importance of Transportation to Development” will start out with 3 keynote speakers from TriMet (public transit), Portland Development Commission, and the Port of Portland. Each of the speakers will address the importance of transportation in the development projects these agencies are currently involved with.

After the keynotes the learning sessions, all three tracks, will begin. Two of the tracks will provide continuing education with a “green” element such as energy, air quality environmental strategies, building envelope, green office practices and greening your specifications. The other learning track will address personal development with topics like time management, bringing out the best in people, and different areas of leadership. Every hour and fifteen minutes will begin a new series of sessions with breaks and lunch in between. The lunch speaker on Friday, Lisa Davidson will address “Effective Listening.” Lisa will help audience discover their own listening strengths and weaknesses and ways to become a better listener. The learning sessions will end around 4:15 and the products fair will run from 5:30 until 7:00 with beer and wine tasting during the products fair. Then dinner followed by CSI Jeopardy and then the hospitality suite until midnight.

Saturday at 8:00, after breakfast, the conference continues, beginning with 2 speakers involved with The Portland Aerial Tram Project, Portland’s newest mode of transportation. Then the learning sessions continue through the morning up until lunch when our lunch speaker, Andy Frichtl, of Interface Engineering will give a presentation on a South Waterfront OHSU high-rise LEED Platinum Building which will be the tour. The tour will also be adjacent to the base of the tram. The rest of the afternoon will be yours to wonder around Portland with your transit passes until 6:00 when the social prior to dinner begins. Dinner is at 6:30 with entertainment after and the hospitality suite following. More detailed information on the learning sessions with speaker bios and session abstracts is available online at the Northwest Region Website.

(continued on pg 6)

CSI PLANNING SESSION

The following people attended the 2006/2007 Planning Session of Portland Chapter CSI.

Jane Phifer, Doug Allen, Cherie McNabb, Lee Kilbourn, Steve Gray, Russ Pitkin, Kaye Kloster, Christine Steel, Dennet Lathan, Corey Morris, Brian Setness, Skip Brown, Bud Henson, Erica Ryon, Tom Coffey, Fred Herbold and Perky Kilbourn

Here is a brief summary of the various topics and the plans for implementing Portland CSI Chapter's strategic long-range plan which were made.

Communications - develop the website, publicize Certification Programs and other activities and appoint a person or committee as contact.

Public Relations - which of course is communication of activities to membership and the community. It was stressed that this public relations effort should have a professional "consistent" look. It might be useful to have our archives in a permanent office where answers could be obtained, when questions of - what worked before? -are asked.

Membership - continue to promote to both potential professional, industry, associate and student members. The goal is a net increase of five percent with student members at PCC, Marylhurst, Portland Art Institute and others.

Programs - September through February have been finalized but March and April are still undetermined. The conclusion seemed to be to design programs that will encourage more active members. It was found that printing a yearly calendar seemed to help. It also was a good idea to have sponsors for each meeting which reinforce the program.

There are 25 sponsorships left for the Region Conference. There are still opportunities for sponsorship of the golf tournament, which will be held at Eastmoreland with a cost increase from \$70 to \$80.

The **Certification** program was discussed. There could be a power point consolidation of presentations. We plan for an increase of 20 or more students. There should be study groups held by certified members and to do this there need to be more certification committee members.

Education is another outreach program. The Chapter could survey what firms want, target general contractors and product reps representatives.

In conclusion – Were you at the Planning Session of Portland Chapter CSI?

- Do you remember what you agreed to do?

NW REGION CONFERENCE

(Continued from pg 5)

The CSI Portland Chapter's 2006 CSI NW Region Conference Planning Committee has been working extremely hard over the last year and a half to organize not only the conference but also to put together addition fun pre-conference activities to provide alternate opportunities from the typical golf tournament. That's not to say that the golf tournament will be less exciting, because it too will be in a beautiful venue at the Eastmoreland Golf Course just minutes away from the Doubletree Hotel.

Registration: Last month, if you read the article, it focused on these pre-conference activities giving a little more detail than was available on the conference registration form provided on line. Soon you should be receiving a mailed version of this registration form. This can be mailed back or if you prefer, you may still fax your form to Jane as indicated at the bottom of the registration form. A change in the Shanghai Tunnel Tour facilitated by the tour timing, is that lunch was added to the package and the price increased to cover that expense. So now the golf tournament, wine tour and tunnel tour all have lunch included as part of their packages.

A note to those outside the Portland Chapter who plan on attending this year's conference: due to the timing of this conference, occurring near the time of the Portland Chapter's regularly scheduled monthly meeting, the monthly meeting has been cancelled so Portland Chapter Members may take advantage of the opportunity to attend the in town conference. This will, more than likely, result in a higher than usual conference attendance as confirmed by a good number of registration forms coming in earlier than anticipated. What this means is that demand could exceed our capacity. Please be aware that the capacity of the facility at the Doubletree Hotel for this conference will be the limiting factor, so if you are planning on registering for the full conference, you will be given priority over those signing up for singular conference activities delineated on the registration form. However we will still be limited to the capacity the facility will accommodate. In other words, if you plan to attend, sign up as soon as possible.

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NORTHWEST REGION CHAPTER MEETINGS

Cook Inlet, Anchorage, AK (Third Tuesday)

Dan Graham, CSI, CDT.....907-261-9203

Puget Sound, Seattle, WA (Second Tuesday)

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)

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Idaho, Boise, ID (First Tuesday)

Steven Turney, CSI, CDT.....208-345-8872

Big Sky, MT

Jan O'Brien, CSI.....406-245-6363

September 2006

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
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| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

- 9/5 CSI Board Meeting, *Noon, AIA Office*
- 9/12 **CSI Chapter Meeting, *Portland Armory tour & dinner***
- 9/14 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 9/25 CSI Membership meeting, *Noon*
- 9/29 CSI Specifiers Share Group Meeting, *Noon, ZGF*

October 2006

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
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| 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*
- 10/9 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*
- 10/26 CSI Specifiers Share Group Meeting, *Noon, ZGF*

Don't miss our November 14th meeting at the Princeton Ballroom
 11/14 CSI Chapter Meeting - *Projects that would have changed the Portland skyline.*