

## September 2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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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	

9/6 CSI Board Meeting  
 9/8 CSI Specifiers Share Group Meeting  
 9/12 CSI Membership Meeting, Billy Reeds  
 9/13 **CSI Chapter Meeting, Tour Vancouver Center**  
 9/22 CSI Specifiers Share Group Meeting

## October 2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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23	24	25	26	27	28	29
30	31					

10/4 CSI Board Meeting  
 10/10 CSI Membership Meeting, Billy Reeds  
 10/11 **CSI Chapter Meeting, Creativity and the Design Process**  
 10/13 CSI Specifiers Share Group Meeting  
 10/27 CSI Specifiers Share Group Meeting



Portland Chapter of CSI  
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Knowledge for Creating  
 and Sustaining  
 the Built Environment



Volume 45, Issue # 4

September 2005

Portland Chapter — The Construction Specifications Institute

### VANCOUVER HOTEL AND CONFERENCE CENTER

#### TOUR & DINNER

September 13, 2005



We've chosen to tour the Vancouver Hotel and Conference Center in September. Eric Wilcox, FFA, says, "This project was all about interiors." So if you haven't had an opportunity to see the inside here's your chance! This brand-new 226-room Hilton Vancouver is the city's new meeting place, offering upscale amenities, a new restaurant, stylish accommodations, and extensive convention and event facilities. The hotel is currently registered with the U.S. Green Building Council and should

receive a Leadership in Energy and Environmental Design (LEED) rating which would make it one of the first LEED certified major hotels in the country.

The Hilton Vancouver, Washington is owned by the City of Vancouver, Washington, developed and constructed by FaulknerUSA, and managed by Beverly Hills-based Hilton Hotels Corporation.

Designed by Fletcher Farr Ayotte, the hotel's design features glass canopies at the entrance, a two-story lobby, a grand staircase, and large windows in the lobby, restaurant and bar overlooking the park. The design visually integrates itself into the neighborhood environment, and a warm, neutral color palette was chosen for the interior. The interior spaces establish a Northwest theme through the use of local, handcrafted artisan lamps in the hallways and meeting rooms, and natural, long-lasting materials including brick and stone.

Please join us September 13<sup>th</sup> for a tour and dinner of this beautiful facility. Tour speakers include representatives from: Fletcher, Farr, Ayotte, Glumac International, Artek, Kramer Gehlen, DeaMor, and Venice Genoa Tile. Gerald Baugh, City of Vancouver, will have some comments on Vancouver's growth after dinner.

**Please remember the commute to Vancouver is slow in the late afternoon!  
 The HOV lane in Oregon is enforced 3:00 - 6:00 pm.**

**The tour will begin at 5:00, Onsite registration begins at 4:30. Dinner will be provided at the Conference Center.**

*Dinner and Program: Members \$30 Non-members \$35, pre-registered by September 9th  
 Or sponsor a table of eight for just \$230.00  
 Late Registrations and Walk-ins \$40, if space available*

*See enclosed Event Registration.*

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## PRESIDENT'S MESSAGE

By *Denet Latham, CSI, CDT*



Welcome to the 2005-2006 year of The CSI Portland Chapter. The Chapter committees have been meeting right through the summer months, getting together to organize the many activities for the coming year. At the chapter planning session in July, an education committee of nine persons was established to help plan upcoming seminars. Steve Gray volunteered to be the Education committee chair. The Region Conference committee, with Russ Pitkin at the helm, met several times

to continue into the second year of planning for the Region Conference 2006 that the Portland Chapter will host in the fall of 2006 at the Lloyd Center Doubletree Hotel. The Programs committee, chaired by Kaye Kloster, also met each month to plan the year's chapter meeting programs. You can keep in touch with these upcoming activities either through The Predictor or the chapter website [www.portlandcsi.org](http://www.portlandcsi.org).

It hasn't been all work and no play this summer. Many of the Chapter and their guests enjoyed the annual CSI Golf Tournament on August 5<sup>th</sup> at the Lewis River Golf Club. Lots of sun,

fun and holes-in-minus-one were had by all. Thank you Erica Bitterman, the Golf committee, and all the sponsors for making the day such a great "hit". Then, at the end of August a contingent of the Chapter attended the 2005 Region Conference in Spokane for four days of education, networking, and camaraderie with members of the other region chapters. More about that event in the October issue of The Predictor.

Over the last couple of years, the Institute has published the expanded Masterformat 2004 and rewrote the Manual of Practice and renamed it The Project Resource Manual (PRM). These are both substantial revisions to the fundamental CSI documents. The Chapter will continue to offer educational opportunities through certification classes, chapter meeting programs, and seminars to help the membership and potential members understand the intricacies of these major revisions.

I am enthusiastic about the activities and learning opportunities for the coming year and would like to thank the committees and board members for taking time away from their summer activities to continue this planning effort. It is through the hard work of the committees and their chairpersons that keeps CSI Portland Chapter activities interesting for the members and potential members as well as keeps the Chapter alive and well as it enters its 46<sup>th</sup> year. I would also like to thank Cherie McNabb for her previous two years of chapter leadership as President and her continuing help with several committees this year in the capacity of Immediate Past President - she is a great mentor!

## WESTERN ARCHITECTURAL - UPDATE

Western Architectural, a construction-consulting firm that specializes in waterproofing systems for building envelopes is now under new ownership and management effective July 29, 2005. Eric Hoff, Nick Dente and John Lamb will form the new ownership and management team. The new owners are planning to hire additional Architectural and Engineering positions to continue their dedication to customer service since 1989.

Eric Hoff, Architect, will take the responsibilities of project Architect, project manager, design reviews, developing solutions for construction defects, expert witness, and building envelope evaluations.

Nick Dente is a Certified Mold Inspector and performs Indoor Air Quality Testing plus detailed field inspections, water damage investigations, forensic building analysis and comprehensive reports.

John Lamb, founder of the company will continue as director of technical services along with water intrusion analysis, expert witness, contractor compliance inspections, waterproofing and restoration solutions.

Western Architectural has added Mike L. Beeson to their team and will assume the duties of Marketing and Sales for commercial construction opportunities.

In addition to new ownership, management and additional staff, Western Architectural has also moved their offices to Lincoln Center in Tigard.

New Owners, New Management, New Employee and New Offices. John Lamb and Mike Beeson have been CSI members for 15 years. Congratulations.

## THE CONTACTS

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**Treasurer & Secretary**  
Larry Barger, CSI, CCS .....360-943-4650

### NORTHWEST REGION CHAPTER MEETINGS

**Cook Inlet, Anchorage, AK (Third Tuesday)**  
Dan Graham, CSI, CDT.....907-261-9203

**Puget Sound, Seattle, WA (Second Tuesday)**  
Andrew Estep, CSI.....206-382-3393

**Mt. Rainier, Tacoma, WA (First Thursday)**  
Jerry Litwin, CSI, CCA.....253-584-5207

**Spokane, WA (Second Thursday)**  
Eric Rieckers, CSI..... (509) 535-0301

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

**Capital, Salem, OR (Third Thursday)**  
LaVone Clausen, CSI.....503-371-2070

**Willamette Valley, Eugene, OR (Last Thursday)**  
Rodd Hansen, CSI-I.....541-687-9600

**Idaho, Boise, ID (First Tuesday)**  
Jon Farren, PE, CSI, CDT.....208-429-1307



## CSI GOLF EXCLUSIVE

The 2005 CSI Annual Golf Tournament was a great success once again and that is all due to the wonderful and generous support of our sponsors.

You were are so wonderful this year and I thank you all so very much, I could not do this with out all of you and your fun and positive attitudes. Thank you for making this just a fun project for me.

Next Year we have moved are date back to the 3<sup>rd</sup> week of August, it will be August 18<sup>th</sup>, 2006, afternoon shotgun.

I would like to recognize a few people and firms that make this event happen. First my co-chair John Armstrong with Ingersoll-Rand, our wonderful helper bees Mark Reeves with Hanset Stainless who helped with registration, Ellen Onstad with McGraw-Hill Construction Doge and Cherie McNabb with Forbo Industries who helped sold Mulligans and Raffle tickets and Our wonderful crew at Lewis River Golf Course, Darrin, Greg, Bob and Adrienne, and let me tell you, they do a terrific job and make sure we all have a great time.

To our wonderful sponsors who with out we could not carry this event on and who CSI and I owe a great deal to for all the help, support, participation and generosity.

### Gold Sponsor



### Silver Sponsor



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Benjamin Moore Paints  
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Forbo Industries  
Ingersoll – Rand  
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Professional Roof Consultants  
Rodda Paint  
Western Construction Services  
Zinsser

Atlas Supply  
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Daily Journal of Commerce  
Ford Graphics  
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Oldcastle Glass  
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PPG  
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Laurenco (both KP & LD)  
Olympic Foam  
Skanska USA  
T&A Supply  
Willis Supply “Hole in One Contest”

### Prize/Goddie Bag Donations

We had so mush come in that day and thank you so very much, Hanset Stainless, Miller Paint, Precision Images, Meteco/API, PPG, Cabot, Zinsser, Georgia Pacific Dens –Decks, Professional Roofing Consultants, Rodda Paint, DJC, DeaMor & Assoc., McGraw Hill Construction Dodge, Ford Graphics, Ingersoll-Rand, Kawneer, Ross & Assoc., Forbo Industries, Professional Water Sealants and T&A supply. I hope I have not forgotten anyone and again thank you so much for all your donations.

See you all next year

## CSI GOLF TOURNAMENT HIGHLIGHTS



LOOK AT ALL THE FUN YOU MISSED!!! BE SURE TO ATTEND THE CSI ANNUAL GOLF TOURNAMENT IN 2006!  
DON'T MISS OUT NEXT YEAR.



By: Perky Kilbourn, CSI



I will Continue with the information I gained at the National CSI Convention last April, since it still seems current.

The Master Format 2004 Roundtable included representatives of each of the groups who use Master Format 2004.

- Specifiers
  1. Considered to be knowledge managers
  2. Change agents
  3. Mentors and educators.
  
- Facility Managers & Owners
  1. Interested in life cycle cost
  2. Most facility costs occurs after construction
  3. Need access to data on construction
  
- Federal Owners such as GSA
  1. GSA wants to get data together so it can move forward with its construction projects.
  2. GSA needs data in place so GSA can manage its buildings. Manage information Information about its buildings.
  3. GSA can handle on going projects continuity of language – they need the tools to do the business we do.
  
- Manufacturers
  1. Benefit from MasterFormat – the person representing the manufacturer started out as laborer and now is an Engineer. He noted how the industry has changed. He noted how the industry has changed When Master Format is used by knowledgeable parties it is
    - a) Consistent – system same for all industries
    - b) Organized - manufacturers want to find info to get bid prepared and to get bid submitted to get job.
    - c) MasterFormat has additional numbering so it can include other aspects - like sustainability requirements.
  
- Contractors
  1. Can go into archives to find old documents and mesh with new documents so have a life cycle information.
  2. Interoperability is good.
  3. MasterFormat will help business.

In the Question and Answer period the following check list for changeover sounded good:

- First, Read your Master Specification and get rid of redundancies.
- Second, Prepare your Narrow Scope Specifications Sections from your current Broad Scope Master Specifications
- Third, Now you are able to call yourself a member of a cutting edge Industry!

January 1, 2006 is the change over date. Starting in June 2005 there will be more involvement. GSA is going to be using Master Format 2004 so the rest of country will follow. MasterFormat training sessions will help members of AIA, Contactors and Engineers. Members of CSI Chapters should become certified MasterFormat Accredited Instructors.

On Thursday, April 21, 2005, the First Set of Sessions Perky attended were under the broad title of Safety and Security.

H23 The use of laminated glass in architecture

The speaker presented the laminated glass manufacturing process. Then discussed safety and testing, followed by:

- Sound - STC (Sound Transmission Class) ratings of Laminated Glass
- Security – Security Glass types include Hurricane Resistant Glass Blast Resistant Glass Bullet Resistant Glass
- Review of Projects utilizing Laminated Glass

H43 Security Technology for the 21st Century. If security is going to be an issue bring your security expert on early. There are three organizations which certify Security Experts or offer certification.

- CPP - Certified Protection Professional
- PSP - Physical Security Professional
- ASIS - American Society for Industrial Security

H63 Post 911 Construction Trends discussed one system, Under Floor Air Distribution (UFAD).

- 1) Functional areas determine appropriateness.
- 2) Plenums must be designed carefully.
- 3) Two fundamental performance issues are slabs and plenum air leakage.
- 4) Plenum safety issues must be addressed.
- 5) Economic analysis – should include a benefit-cost analysis, comparing the Under Floor Air Distribution system with the Conventional Air Distribution systems.

(continued pg 5)

On Friday, April 22, 2005 Perky attended the Roundtable on Security Issues. After exhibit viewing Perky learned about designing against Terror and Crime with CPTED (Crime Prevention Through Environmental Design), and the concept of compartmentalization - keep perpetrators and biohazards away from their intended victims.

Saturday morning, April 23, 2004, Perky learned how to design shelter areas for improved tornado mitigation. Apparently wood doors don't withstand tornados.

The final talk of Saturday was on the moisture related flooring issues. Keeping moisture and heat in a building will encourage mold and fungi to grow. A building should let the moisture out but keep heat in so that the building is energy efficient.

Saturday noon was the Annual Meeting and Member Forum with a box lunch and awards. Dennet Latham accepted the Continuing Chapter Commendation Award for Portland Chapter. This is the fifth year in a row that Portland Chapter has earned the Outstanding Chapter Commendation.

These presentations were followed by CSI University Opening General Session. I played hooky and met with a woman from Graduate Women in Science to discuss that organization.

Sunday morning April 24, 2004, I attending the session on Mentoring by Edith Washington, followed by "So Your Chapter Needs Money" by Joseph Dworkin. I finished the technical sessions of CSI University with "Passing the Torch; how to Mentor your Replacement" by Katherine Proctor.

The closing session of CSI University included lunch and a brief speech by Michael Owen. Owen stressed the responsibilities of the future leaders of CSI: Diversity is what keeps us going both as persons and as a professional.

- CSI leaders
  - 1) need to engage and motivate members.
  - 2) need to have a vision and be able to communicate it.
  - 3) set objectives and then do them.
  - 4) mentor in order to grow a successor.
  - 5) show opportunities that exist
  - 6) give energy to chapters
  - 7) have fun
  - 8) be successful, because commitment is Strong and then the individual and the Chapter will succeed.

CSI Academies & CSI Certification Program Exams  
 October 12 -14 & 15, 2005  
 San Francisco, CA  
[www.csinet.org/education](http://www.csinet.org/education) & [www.csinet.org/certification](http://www.csinet.org/certification)

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Only CSI's academies and certifications benefit all disciplines in the commercial and industrial building design and construction industry. That's because CSI is the only organization to represent all the members of the construction team.

Exams for the CDT certificate and CCS, CCCA and CCPR certifications will be offered after the CSI Academies Saturday, October 15, in San Francisco!

Register now – the **FINAL registration deadline for the exams is August 15, 2005!** Registration for the academies education sessions is separate – register by September 12<sup>th</sup> for early sign-up discounts!

Time is running out – Register NOW at [www.csinet.org](http://www.csinet.org) by clicking on Event Registration!

CSI Certification Exams – October 15, 2005  
 San Francisco, CA  
**Final Registration Deadline: August 15, 2005**  
 Online: [www.csinet.org](http://www.csinet.org)  
 Fax: 703-684-8436

Product Representative Academy – October 12-14, 2005  
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 Contract Administration Academy – October 12-14, 2005  
 San Francisco, CA  
 Construction Specifications Academy (NEW!) – Oct 12-14, 2005 – San Francisco, CA

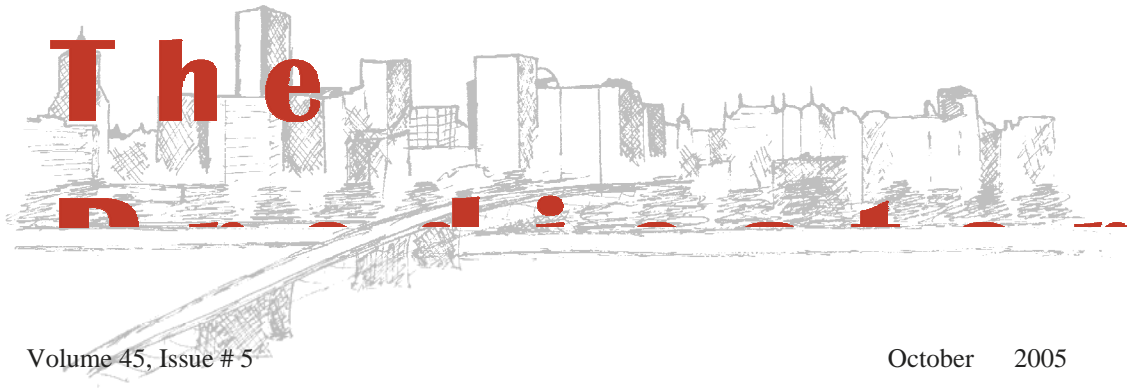
**Early Registration Deadline: September 12, 2005**  
 Online: [www.csinet.org](http://www.csinet.org)

For more information on the academies or the certification exams, visit [www.csinet.org](http://www.csinet.org) or contact CSI Member Services at [csi@csinet.org](mailto:csi@csinet.org) or 800-689-2900 (M-F, 8:30 am – 6 pm ET).

Please note the CSI Academies are not intended to be a sole source of preparation for CSI's certification exams.



Knowledge for Creating  
and Sustaining  
the Built Environment



Volume 45, Issue # 5

October 2005

# PRESIDENT'S MESSAGE

By Dennet Latham, CSI, CDT



*"The Construction Specifications Institute advances the process of creating and sustaining the build environment for the benefit of the construction community by using the diversity of its members to exchange knowledge."*

In pursuit of the above current Institute mission statement, the Portland Chapter has established several goals for this year to expand the educational opportunities available through Chapter activities in support of the exchange of construction

knowledge. We will do this by calling on professional and industry members to share their experiences and knowledge of their special interests for the benefit of members and others throughout our local construction community.

On the AIArchitect, Best Practices web site there is a provocative article by Jim Atkins, FAIA and Grant A. Simpson, FAIA, entitled "Your Grandfather's Working Drawings". This article reviews the differences in the operation of a design studio due to changes in construction drawing production technology from pencil and ink hand drafting on vellum to the automated capabilities of CAD. The authors claim that with this transition a void has resulted in the traditional passing down of construction technology knowledge from the chief draftsman ("draftsman" in our grandfather's day) to junior draftspersons. Several of the points highlighted in the article include:

"The intelligence of computer generated drawings has begun to replace the draftsman's knowledge."

"These days, senior project leaders, unable to comprehend fully the story of the building in the limiting context of a computer screen, and not usually proficient with CAD, rely on younger architects to do the drafting. They can no longer mentor and coach in the artistry of drawing organization and detail composition."

"The universal knowledge of our firms is sitting dormant as the youngsters surf and select, pick and drag and cut and paste."

"The relationship of working drawings and specifications is too often misunderstood."

To help fill the resulting void, the authors suggest that senior architects need to return to some of the techniques of the experienced senior draftsmen of the past by spending more time plotting out construction drawings, pinning them up on the wall, redlining...and redlining...and reviewing the comments with younger architects to help transfer knowledge. Help young designers by making them review specifications as they develop drawings and allow them to assist with services during construction tasks such as reviewing submittals, tagging along on construction site visits, and reviewing site observation reports. In

general, allow them to observe in constructed form what they have been drawing for many weeks. With this additional mentoring by senior staff perhaps the void will be slowly filled as younger CAD savy draftspersons continue to mature and move into leadership positions.

Participation in CSI Portland Chapter activities is another means by which construction knowledge can be gained or transferred. Some of the education events planned for this year include:

- Construction Tours: Like the visit to the new Vancouver Hilton Hotel and Conference Center this last month, these tours are an excellent way to get out in the field and learn about how buildings are constructed and how the different project team members participated in the overall effort. Usually, it is an opportunity to see these facilities at a stage of construction that will not be available to see once the building is completed.
- The Chapter meeting on Tuesday October 11 will include a presentation on Metro's construction recycling program with information about writing waste management program specifications for projects.
- At most monthly Chapter meetings, there will be table top displays sponsored by product vendors that will give meeting attendees the opportunity to view and discuss various construction products with manufacturer representatives.
- This month the construction industry celebrates Architecture Week from October 24 to 30. The Portland Chapter AIA has a number of interesting activities planned for dates before and during Architecture Week. Check with the AIA Office or their web site at [www.aiaportland.org](http://www.aiaportland.org) for a complete list of events. Portland Chapter CSI is participating in Architecture week by offering a seminar on "Masterformat 2004, Conversion and Implementation", given by Rick Heiserman, CSI, CCS, CCCA, and the CSI Northwest Region Senior Director. The seminar will be held on Monday October 24, 2005 at the 1900 Building, (1900 SW 4<sup>th</sup> Avenue), Room 2500B, from 3:30 pm to 5:00 pm. Cost is \$10.00 for CSI and AIA members and \$20.00 for nonmembers. Please RSVP to Jane Phifer at the CSI office number (503) 805-2500.
- Then, in 2006, the Chapter will once again conduct certification classes from January to April. The classes will cover information in the new Project Resource Manual (CSI Manual of Practice) and Masterformat 2004. These classes are valuable to everyone in the construction industry, not just those preparing for certification exams. The PRM covers topics regarding the entire construction process including the different kinds of construction project contracts, coordination of drawings and specifications, writing and interpreting specifications, and also includes chapters valuable for construction administration procedures, facility management,

(CONTINUED PG 3)



and construction product representative activities. Understanding the PRM is valuable for anyone that participates in the construction project execution; younger construction community members just learning the industry's complexities as well as more experienced persons looking for refresher classes.

- As well as the monthly Chapter meetings throughout the year, in the Spring of 2006 watch for technical seminars at the annual Products and Services Fair in May, a seminar on "Greening you Specifications", and another construction tour in June.

As in the past, AIA Learning Units will be available at CSI education events. Keep in touch with these activities through The Predictor, the Chapter website at [www.portlandcsi.org](http://www.portlandcsi.org), and various emails.

## **Hurricane Katrina Relief through CSI Foundation RW Simmons, CSI, CDT Northwest Membership Chair, Member, Institute Membership Committee**

Financial help is needed to help our Gulf States Region's CSI members that were in the target of Katrina. Katrina wasn't picky when she devastated so many, including over four hundred of our CSI members. They have lost either all or part of their personal and business possessions and holdings. It will be close to a year, possibly longer, before normal life is regained.

On our [www.csinet.org](http://www.csinet.org) web site you can monitor the CSI members who are added to the list each day.

You can donate to this Katrina relief fund by writing a check to The CSI Foundation and note in the memo area "Hurricane Katrina" for the benefit of our CSI members through The CSI Foundation. Please mail your check to:

**The CSI Foundation,  
99 Canal Center Plaza, Ste 300  
Alexandria, VA 22314.**

Your financial help will be greatly appreciated by all Gulf States Members that have lost everything.

The easiest way to reach the Hurricane Katrina information on CSI's website is by typing [www.csinet.org/hurricanekatrina](http://www.csinet.org/hurricanekatrina) into your browser. You can also click "Communities" on the frontpage of CSINet, and then "Hurricane Katrina."

On behalf of the Institute it is my pleasure to congratulate the Portland Oregon CSI Chapter on its 45 anniversary. Achieving this milestone is noteworthy and CSI salutes the contribution made by your Chapter to both the construction industry and to the professional development of the membership. The officers and members should take great pride, both personally and collectively, in the Chapter's history and its achievements.

The strength of CSI is measured by the vitality and accomplishments of its chapters. It has always been and will continue to be the activities of our chapters which make the Institute a leader in the construction industry. I encourage you to contact me, members of the Institute Executive Committee, and the Institute Directors from your region with your suggestions and ideas that could be shared with other chapters and CSI members. Your Chapter's activities will help the Institute as we continue to advance into the next century.

CSI can offer a lot of new programs and initiatives to help your chapter advance, too. I think you'll be both excited and surprised at what the Institute will be bringing online in the near future to help your members grow in today's explosion of technology and the internet. CSI will continue to expand its leadership role in construction information and communication through our OmniClass initiatives, publication of the Project Resource Manual — CSI Manual of Practice, providing education programs that support the implementation of the MasterFormat expansion, implementing community groups in the membership for exchange of information, partnerships with the industry's leading organizations, and achieving goals identified in our updated strategic plan. FY 2006 will be a real milestone for both your chapter and the Institute with the expanded educational opportunities at the CSI Show and CSI University, the latter which can provide vital leadership training for current and future chapter leaders.

I offer my personal congratulations for 45 years of service to our members. In addition, I want to extend best wishes from the entire Institute membership for the Portland Oregon CSI Chapter's continued success.

Sincerely,

Michael T. Owen, Sr., FCSI, CDT

President CSI

# PERKY'S NOTES

By: Perky Kilbourn, CSI



The recent Region Conference Keynote address by Raymond Reyes, Ph.D., Associate Vice President for Diversity at Gonzaga University.

A Native American Chant began the Keynote Address at the CSI Northwest Region Conference to the Journey of Intercultural

Communication: Putting Wind in Your Sail.

Dr. Reyes then advised that just like the

“Three R’s of Education” –

- Reading
- ‘Riting
- ‘Rithmetic

There are

“Three R’s of Conflict”.

- Race
- Religion
- Resources

Reyes then told us there are three ways people tend to respond.  
First they need to know something - know.  
Second they need to care about something they know – care.  
Third they need to act on what they know and care about – act.

The key interrelationship of “know, care and act” is the relevancy of the “something” which is known, cared about and acted upon.

Intercultural relationships are developed by learning to be Good Relatives.

- Good Relatives know their neighbors.
- Good Relatives care about their neighbors
- Good Relatives act with respect toward their neighbors

Everyone should know what it feels like to be respected.

There are universal values or four wisdoms.

- First** - everyone got credit for showing up.
- Second** - one should pay attention to what was at the heart of the meaning
- Third** - one should tell the truth without blame or judgment.
- Fourth** - one should be open to outcome and not attached to outcome.

People move from known to unknown to create change.

People should be willing to answer at least three questions:

- Who are you?
- Where are you going?
- Do you have anything to declare?

Report on sessions Perky attended at CSI NW Region Conference.

**“Bid Shopping” by Chris Cox,**

Bid Shopping is defined as the practice of divulging, or causing to be divulged, a contractor’s or subcontractor’s bid or proposal or requiring a contract or subcontractor to divulge its bid or proposal to another prospective contractor or subcontractor before the award of a contract or subcontract in order to secure a lower bid or proposal.

H.R. 2834 before 109th Congress prohibits this practice known as bid shopping. The bill was referred to the Committee on Government Reform and has not yet been voted on by Congress.

Washington State has RCW 39.30.060 which discourages bid shopping and bid peddling on Washington state public building and works project expected to cost \$1 million or more, as well as other key elements. Idaho has no provision against pre-award bid shopping. Oregon has a more complicated process which was discussed.

**“Education is Selling” by John Lape**

John discussed manufacturers representatives being a resource versus just representing product. Location of project and manufacturer of product are significant. Commodities - will ask for information on a product when have an application for it. Solution – architects need general product information, project specific information, master specifications update, and information for library. Manufacturers representatives can host educational seminars for AIA/CES Program. If Manufacturer’s representative’s makes their presentation’s generic then they should be well received.

**“Global Oil Depletion and Implications for the Pacific Northwest” by Melissa Ahern**

Dr. Ahern showed a couple of videos and stressed that there is no magic bullet. For example hybrid cars are only buying time. Nuclear energy may be the hope of the future.

**“Building Information Modeling (BIM) for Greener Designs” by Jerry Jackson**

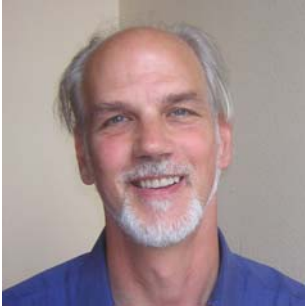
Demonstrated how Building Information Modeling can be used to allow architects to perform faster and more accurate energy analysis on earl stage building designs through constructing a “green building”.

**“Marketing and Selling with Specifications” by Paul Simonsen**

- After an excellent presentation Simonsen ended with 10 Maxims
1. Have necessary information available (or be able to get it).
  2. Know thy product, applicable codes and industry standards.
  3. Be prepared to compare your product with competition – honestly.
  4. Be prompt within reason – follow-up.
  5. Maintain confidentiality when requested.



By: Fred Herbold, CSI, CCS



## Specifying Steel Doors and Frames - Hollow Metal Work

Summary of "Spec-Right" Presentation by ASSA ABLOY

Simple short specs

### Industry Standards:

ANSI 250.8/SDI 100 Recommended Specifications for Standard Steel Doors and Frames, sponsored by the Steel Door Institute. This one reference includes 4 levels that are based on performance and material minimums. SDI has 11 member manufacturers, 8 are also members of HMMA.

NAAMM HMMA Guide Specifications from the Hollow Metal Manufacturers Association. There are 6 separate specifications, so the specifier must select the appropriate reference spec. HMMA has over 60 member manufacturers. Specs are:

HMMA860: (Light Duty) HM Doors and Frames

HMMA861: Commercial HM Doors and Frames

HMMA862: Commercial Security HM Doors and Frames

HMMA863: Detention Security HM Doors and Frames

HMMA865: Sound Control HM Doors and Frames

HMMA866: Stainless Steel HM Doors and Frames.

SDI 100 is usually sufficient for your basic reference standard. When the project needs detention, high level sound control, or very unusual requirements, use the appropriate HMMA.

### Base Specification:

Manufacturer: Member of SDI or HMMA or both.

Exterior Doors and Frames: SDI Level III, Performance Level A, select Model:

Model 1: Full flush, has visible edge seam

Model 2: Seamless

Model 3: Style and Rail.

Should be galvanized. Doors should have a top cap.

Interior Doors and Frames: SDI Level II, Performance Level B, select Model:

Model 1: Full flush

Model 2: Seamless.

To avoid unpleasant results that are manufacturer's standard and allowed by the reference specification, your master specification should include a range of options for each of the following products.

### Exterior Frames:

Material: Galvanneal A60, normal, paintable.

Galvanized G90, at corrosive environment.

Stainless steel, \$\$

Thickness: 14 gage (Level III is 16 gage min.)

12 gage at openings wider than 48 inches.

Construction: Welded

Fully welded is preferred.

Face welded and sealed.

### Interior Frames:

Material: Galvanneal A60, paintable.

Galvanized G90, corrosive environment.

Primed – be sure to specify primer, no silicon-modified primers. Epoxy is best for adhesion.

Thickness: 16 gage

14 gage at openings wider than 48 inches.

Construction: Fully welded

Face welded

Knockdown, basic SDI spec, field assembled.

Slip-On, field assembled, installed on finished walls, can be prefinished.

### Doors:

Material: Same as frames.

Faces: Level IV if 14 gage is needed.

Construction: Model. Seamless can be specified fully welded, but reserve this for Level III and IV only.

Core: Urethane, foamed in place (best)  
Steel stiffeners with fiberglass insulation (strong but affects appearance of faces)

Polystyrene, fully bonded.

Mineral (for fire doors, let rating determine if this is needed)

End Caps: Top and/or Bottom

Welded or Screw Applied and Filled.

Edge Bevel: Both, Strike only, None.

Bull Nose for double acting.

Glazing Frame: Flush or Wrap Around.

Louvers: SDI has standard styles to select from.

(continued on pg 6)

## PERKY'S NOTES

(CONTINUED FROM PG 4)

6. Admit your limitations – don't make promises that cannot be kept.
7. Admit product limitations – recommend right product.
8. Acknowledge Architect can only control so much.
9. Life cycle costs are important – both ways.
10. Get involved in the local Design Community; Construction Specifications Institute/American Institute of Architects.

### “Student Memberships in CSI” by Puget Sound Chapter

Bob Simmons had a set of slides which outlined what Puget Sound Chapter had done and was doing. He then discussed the membership goals in the northwest region. The key seems to be increasing the retention rate as well as adding new members. CSI really needs both.

### “What You Need to Know About CSI and the Role of CSI in The Future” by Carole Schafmeister, FCSI

Wants CSI to attend to members' professional development as they evolve.

Wants CSI to be respected among its peer organizations in the Industry.

CSI's education programs and membership will grow through Industry liaisons.

CSI has become the authority within the construction industry for the development of standards and classification systems.

CSI members depend on and must mutually support each other to bring the complete value package to CSI members which supports CSI growth and future.

I really enjoyed Spokane Chapter's efforts.

The CSI certification programs are a great way to gain industry knowledge and boost your career. Nationwide testing for CSI certification is planned for March 25, 2006. Tests will be for Construction Documents Technologist (CDT), Certified Con-

## WHAT DO YOU SAY..

(CONTINUED FROM PG 5)

**Configurations:** Usually the drawings detail and dimension frames including rabbets; and openings in doors for glazing and louvers. However, they can be described in the specifications. Be sure to use the terms used in the reference standard.

**Installation:** HMMA 840 has slightly tighter tolerances than SDI. One difference you might consider addressing is the door undercut when there is a threshold. SDI does not address this; HMMA reduces normal 3/4 inch to 3/8 inch.

Pre-coating frames for grouting and sound deadening is not recommended. SDI recommends sound deadening frames with fiberglass insulation. They also recommend field-applied protective coating like automotive undercoating to protect grouted frames from grout additives.

Specifications and references are available in down-load form from both associations.

### References:

SDI - Steel Door Institute: [www.steeldoor.org](http://www.steeldoor.org)

HMMA - Hollow Metal Manufacturers' Association:  
[www.naamm.org/hmma](http://www.naamm.org/hmma)

Many thanks to: Ken Smith CSI CDT AHC  
Doug Allen CSI  
Kevin Klemmer PSP



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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)

Andrew Estep, CSI.....206-382-3393

### Mt. Rainier, Tacoma, WA (First Thursday)

Jerry Litwin, CSI,CCCA.....253-584-5207

### Spokane, WA (Second Thursday)

Eric Rieckers, CSI..... (509) 535-0301

### Portland, OR (Second Tuesday)

Jane Phifer, CSI.....503-805-2500

### Capital, Salem, OR (Third Thursday)

LaVone Clausen, CSI.....503-371-2070

### Willamette Valley, Eugene, OR (Last Thursday)

Rodd Hansen, CSI-I.....541-687-9600

### Idaho, Boise, ID (First Tuesday)

Jon Farren, PE, CSI, CDT.....208-429-1307

# October 2005

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 Education Committee Mtg, Blue Moon Tavern
- 10/4 CSI Board Meeting
- 10/10 CSI Membership Meeting, Billy Reeds
- 10/11 **CSI Chapter Meeting, Are You Throwing Away Money?**
- 10/13 CSI Specifiers Share Group Meeting
- 10/24 Masterformat Seminar - AIA Architecture Week
- 10/27 CSI Specifiers Share Group Meeting

# November 2005

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			

- 11/1 CSI Board Meeting
- 11/7 CSI Education Committee Mtg, Blue Moon Tavern
- 11/8 CSI Membership Meeting, Billy Reeds
- 11/8 **CSI Chapter Meeting,**
- 11/10 CSI Specifiers Share Group Meeting

**Note: The Predicator will be going electronic in a few months. Please make sure that your email address is current at the CSI Office. Email [jane@portlandcsi.org](mailto:jane@portlandcsi.org) if you do not currently receive broadcast emails from CSI regarding the Chapter Meetings.**



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# The



Knowledge for Creating  
and Sustaining  
the Built Environment

Volume 45, Issue # 6

November 2005

# PRESIDENT'S MESSAGE

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By *Dennet Latham, CSI, CDT*



## Sometimes Certain Things Just Need To Be Reiterated

At a roundtable discussion before a previous Chapter meeting, the topic of discussion was Specifications Enforcement. The key question asked was, if there is an apparent lack of specifications enforcement today, then what is the

first step we as members of CSI can do to improve the situation?

After listening to the arguments of the Chapter meeting panel discussion it seems apparent that in order for specifications to be enforced they first have to be enforceable. To make specifications enforceable, the design professional (including designers, project architects/engineers, managers, specifications writers, construction administrators have to have the right attitude and sense of responsibility toward the project specifications.

The “right attitude” consists of a strong belief that specifications are essential to the successful execution of the project design intent. Have you heard these comments before? “Don’t waste time on the specs, they don’t read them anyway”, or “Next time you write a spec make it half as long”, or “On Monday you will receive drawings for a high school project; have the specifications complete by Friday”, or “We don’t have time to put it in the specifications, we will put it in the addendum” (or Design Revision Bulletin - DRB), or “We will work it out on the shop drawings”. All these comments indicate a poor attitude toward the idea that specifications are important, along with the drawings, for communicating the owner’s and design professional’s intent to the Contractor. By establishing very early in a project that specifications can and should be an integral part of the contract documents the first step has been taken to make specifications enforceable.

Along with the right attitude, the design professional must have a sense of responsibility toward making the

project manual and drawings complete, technically accurate, and well coordinated if the quality of the communication with the contractor is going to improve. The CSI Manual of Practice (now The Project Resource Manual), Masterformat™, and other CSI Documents are available to provide guidelines for assisting the design profession to improve the quality of specifications.

With the proper attitude and sense of responsibility toward specifications the design professional has taken appropriate first steps to creating enforceable specifications. Once the desire is established, all that remains to do to make specifications enforceable is just plain hard work!

*Reprinted with the author’s permission from:  
President’s Column  
The Predicator  
March 1987*

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## 2006 NW REGION CONFERENCE SPONSORSHIP OPPORTUNITIES

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**ALL ABOARD!** It’s “CSI to the MAX” as we hop aboard light rail from our base at the Lloyd Center Doubletree Hotel during the **2006 CSI NW Region Conference, October 5-8**, to explore Portland’s transportation systems including the new and unique Portland Tram Project scheduled to open September 30, 2006. This conference’s exciting lineup goes beyond the usual continuing education program to include professional development in construction technology, business skills, CSI Leadership, personal development, wine tasting, micro-brew tasting and much, much more. There is something for everyone and sure to be a huge draw. Amazingly, one year out, some sponsorship opportunities are filled, so **don’t miss the train, call Jane**, (503) 805-2500 or [jane@portlandcsi.org](mailto:jane@portlandcsi.org) to reserve your sponsorship level before they are filled. **ALL ABOARD!** Don’t be left behind!



**INSERT SPONSOR  
YOUR CHAPTER  
PDF HERE**

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By: Perky Kilbourn, CSI

One of the advantages of no longer directing two laboratories, is that I now have time to sort and file the many articles which I have saved over the 18 years I had two laboratories. My conclusions are:

- First** - The downside is that it has taken a while.
- Second** - The upside is that it has allowed me to find information for my Notes.
- Third** - Neutral-side is that my Notes need to be relevant to the Construction Industry.

For example

**Note #1** - Whistleblowers – These may be of interest to members of the Construction Industry because sometimes it happens in the Construction Industry. I saved an article from the January 17, 2005 issue of The Scientist entitled “The Plight of the Whistleblower” by Eugene Russo. It gives two case histories of whistleblowers who lost their jobs.

*First* - David Lewis, former microbiologist with the Environmental Protection Agency (EPA), wrote two different articles which were pu

The first step in the decision-making process is to formulate and carefully define the question. The second step is to decide to decide – decide when you have enough data to make an informed decision and then make it.

**Note #3** – The article “Painful Design” by Henry Petroski in March-April 2005 of American Scientist caught my eye next. It reported that “child-proof” packages do work. The problem now seems to be with grandparents. Grandparents may find

“ . . . the child-resistant caps so difficult to operate that, once removed, they (child-resistant caps) were left off, or the medicine was transferred to a more easily accessible container.”

Apparently manufacturers are now designing bottles which are “child-proof” yet can be opened by grandparents who may have arthritis.

**Note #4** – Dale Dauten published his article “My best advice” in the June, 2005 issue of CAP Today. CAP stands for College of American Pathologists. Dauten concluded his article with 10 sayings that have helped him – quoting:.

1. Experiments never fail.
2. Different isn't always better, but better is always different.
3. Think like a hero; work like an artist.
4. We are emotional beings pretending to be rational.
5. Follow your energy.
6. The one who dies with the most joys wins.
7. On the high road, too, there are potholes.
8. Every 10th person is a jerk.
9. In every company, people are going to make fun of the boss; it's just that in the good companies, it happens when the boss is around.
10. Facts are useful; they give the conscious mind something to do while the emotions decide what's true.

**Note #5** - Margie Largent to be nominated for CSI Environmental Stewardship award, Margie's house is now listed on the National Register of Historic Places. This seems like a suitable closing note.





Knowledge for Creating  
and Sustaining  
the Built Environment

## CSI Certification Study Group Registration Begins Now

Every year the Construction Specifications Institute provides an opportunity to attain professional certification in many career-advancing fields:

- (CDT) Certified Document Technician
- (CCS) Certified Construction Specifier
- (CCCA) Certified Construction Contract Administrator
- (CCPR) Certified Construction Product Representative

These credentials can boost earning potential and add professional value to anyone serious about a career in construction. They are among the most respected in the industry and will attest to the professional expertise and commitment of those who earn them.

**CDT Study Class:** Beginning January 18, 2006, the Portland CSI Chapter will provide classes to help prepare CDT candidates for the March 25 national certification exam. Classes will be held Wednesday evenings, 6:00pm till 8:00 pm at LSW Architects\*, 1953 N.W. Kearney, Portland.

**Class Fee:** The fee for the study group will be \$100.00 for CSI members and \$155.00 for non-members. The class will be free to students. Sign up for the class with Jane Phifer, (503) 805-2500 or [jane@portlandcsi.org](mailto:jane@portlandcsi.org). This fee does not include study material or registration for the national exams. Registration for the exam can be made through CSI's web site at [www.csinet.org/](http://www.csinet.org/).

**Study Materials:** The certifications exams are largely based on the principles described in The Project Resource Manual - CSI Manual of Practice, fifth edition (PRM) and Masterformat™, 2004 edition. The CSI Portland Chapter has a limited number of these documents for sale at the following prices:

The Project Resource Manual: \$190 for CSI members; \$250 for nonmembers

Masterformat™ 2004: \$75.00 for CSI members; \$100 for nonmembers

(These prices represent a 20-40% savings over prices available through the Institute bookstore).

For more information about this and other CSI Certification issues contact:

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*Certification Committee Chair*  
*Portland Chapter CSI*  
*Port of Portland*  
*[christine.steel@portofportland.com](mailto:christine.steel@portofportland.com)*  
*(503) 944-7367*

*Amy Hjelte*  
*Certification Committee Co-Chair*  
*Portland Chapter CSI*  
*LRS Architects*  
*[ahjelte@lrsarch.com](mailto:ahjelte@lrsarch.com)*  
*(503) 221-1121*

**Commit to your professional future. Register for Certification today!**

## OCTOBER MEETING RECAP

---

By: Perky Kilbourn, CSI

Are you throwing away money?

The title was not misleading.

Bryce Jacobson, gave an interesting presentation. Once I got home I found my copy of the **2006 Construction Recycling Toolkit – A Directory of Recycling and Salvage Options**. It stresses the same things which Bryce did in his presentation. Construction projects should maximize recycling, salvage, deconstruction and other sustainable practices. There are three options for recycling:

First - Salvage and deconstruct first

Second - Put all your construction debris together in one container. Then take it to a facility (MRF – Material Recycling Facility) that sorts construction debris for materials which are suitable for recycling.

Third – Source separate (SS) your different debris types; separate similar materials into categories such as wood, drywall, metal etc. Be sure the sign (indicating debris type) on each box is large enough that it can be seen and moved when the box gets full and you start the next box.

There are companies which will sort debris as they clean up the job site. Salvage companies will pick up salvageable material and write receipts for tax purposes.

The recycling of residential construction debris is good but the recycling of commercial construction debris is not as good. There may soon be a ban on what you can throw away. In 2007 the emission standards are changing. There are going to be more plastics recycled because of increase expense of oil.

Contractors need to include in their estimate the expense of taking construction debris to a landfill. Building owners may be able to save material from one building to use in another building. Currently there have been no law suits from recycling or reusing construction items but there may be in the future.

There is one question about recycling window glass. Apparently if the windows don't fit somewhere else, the windows are broken down and the glass is used for fiberglass insulation.

In conclusion, a fascinating program.

## DECEMBER MEETING

---

Mark your calendars!! CSI is having a family fun night with the Blazers. Sunday, Dec. 11, 2005. As part of this special night, Portland Chapter CSI family and friends will be able to:

- See your Trail Blazers take on Yao Ming and the Houston Rockets for a special group rate.
- Enjoy an all you can eat gourmet buffet with each ticket purchased.
- Take part in a fun filled evening with your fellow CSI members, families and friends!

Space is limited so call Jane Phifer at the CSI Office to reserve your space. 503.805.2500.

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### Puget Sound, Seattle, WA (Second Tuesday)

Andrew Estep, CSI.....206-382-3393

### Mt. Rainier, Tacoma, WA (First Thursday)

Jerry Litwin, CSI,CCCA.....253-584-5207

### Spokane, WA (Second Thursday)

Eric Rieckers, CSI..... (509) 535-0301

### Portland, OR (Second Tuesday)

Jane Phifer, CSI.....503-805-2500

### Capital, Salem, OR (Third Thursday)

LaVone Clausen, CSI.....503-371-2070

### Willamette Valley, Eugene, OR (Last Thursday)

Rodd Hansen, CSI-I.....541-687-9600

### Idaho, Boise, ID (First Tuesday)

Jon Farren, PE, CSI, CDT.....208-429-1307



# November 2005

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

- 11/1 CSI Board Meeting, *Noon, AIA Office*
- 11/7 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*
- 11/8 CSI Membership Meeting, *Noon, Billy Reeds*
- 11/8 **CSI Chapter Meeting, Portland Art Museum, Princeton Ballroom**
- 11/10 CSI Specifiers Share Group Meeting, *Noon ZGF*

# December 2005

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

- 12/5 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*
- 12/6 CSI Board Meeting, *Noon, AIA Office*
- 12/8 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 12/12 CSI Membership Meeting, *Noon, Billy Reeds*
- 12/13 **CSI Chapter Meeting, Family night with the Blazers**
- 12/22 CSI Specifiers Share Group Meeting, *Noon, ZGF*

**Note: The Predicator will be going electronic in a few months. Please make sure that your email address is current at the CSI Office. Email [jane@portlandcsi.org](mailto:jane@portlandcsi.org) if you do not currently receive broadcast emails from CSI regarding the Chapter Meetings.**



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Knowledge for Creating  
and Sustaining  
the Built Environment

A detailed black and white architectural sketch of a city skyline, featuring various skyscrapers and buildings, rendered in a cross-hatched style. The sketch is positioned behind the main title text.

# The Predicator

Volume 45, Issue # 7

December 2005

# PRESIDENT'S MESSAGE

By Dennet Latham, CSI, CDT



## “It’s All About the Future”

“Blazers buckle in for a bumpy ride as they embark on their first full season in overhaul mode”

“BLAZERSEXTRA” in the Tuesday November 1, 2005 The Oregonian

On the Institute website there is a list of companies and organizations that have made the decision to adopt Masterformat™ 2004 to help organize their construction information whether it is office specifica-

tions, construction estimating cost codes, corporate master specifications, product catalog numbering, or for some other information filing system. Among the over 160 names listed that have adopted Masterformat 2004 or intend to by January 2006 are a number of Portland companies:

- Ankrom Moisan Associated Architects
- BOORA Architects
- Fletcher Farr Ayotte, P.C.
- SERA Architects

It is good to see a step forward has been taken in bringing the new system into our community. Along with encouraging architects to convert to the updated document, the Specifiers Share Group has met with area consulting engineers to promote updating their specifications by 2006 so local project specifications can be coordinated. Conversion and acceptance within the industry will not happen quickly; it will be an evolutionary process. But all firms should take some time to investigate how the new document can work within their offices for helping them organize their information in a uniform way.

At the recent Masterformat seminar during AIA Architecture Week, given by our NW Region Director Rick Heiserman, there was discussion about the change to the 6-digit section numbering scheme that is also new to Masterformat along with the new divisions. Attendees were concerned that the 6 digits and the addition of Level 4 digits and Level 5 alphanumeric extension (00 00 00.00.AAA1) provides too much detail for smaller offices. It is important to understand that the numbering system has been established to serve the construction industry for the next 40-50 years thus; it allows flexibility for adding sections for new work results and technologies as well as allows use of the numbering system for filing or cataloging construction information for purposes besides specifications. The use of Level 5 characters is intended for internal office use only for filing purposes and is not recommended for use in project specifications. The added flexibility is there to encourage new uses as needed as the system and the construction industry evolves. A good use for the Level 5

extension is for saving client-specific or vendor-specific copies of the same section. However, for a small office, it may not be necessary to be more specific than Level 3 numbers (00.00.00).

~ “The Veteran: Ruben Patterson is caught between the team’s need to rebuild and his desire to win.”

Masterformat, for decades the industry standard for organizing specifications in 16 Divisions now expanded and reformatted into 50 divisions. The old respected 14 divisions still remain in the Facility Construction Subgroup (Div 2-19) with new divisions adding locations for information in new Subgroups for Facility Services (20-29), Site and Infrastructure (30-39), and Process Equipment (40-49). Much of the discussion about conversion to Masterformat 2004 during the development and review stages of its development revolved around how much time and labor it would take to adopt the new numbering system; and how much effort was involved to rewrite new sections to fit the revised section numbers and the new Divisions; valuable time away from prime directive project work. Yes, change takes energy but, with a little planning before starting, and a full understanding of the flexibility within the document, you may find Masterformat 2004 can help you organize information in ways you have not thought of previously.

~ “Blazer executives, who are orchestrating the most thorough rebuilding effort in franchise history, have stocked the team with young, promising athletes who they hope will develop in to NBA players.”

Brand new Divisions such as Division 27 Communications, 35, Waterway and Marine Construction, and 48 Electric Power Generation help expand Masterformat into other industries that have not previously had defined locations for information. There are also new section titles in each Division for Operation and Maintenance, which may be a benefit to facility managers for filing information, and other new titles for Common Work Results, which can include information that applies to the entire division. So, there are new ways to help organize construction project information and building management information.

~ “You gotta be patient, you gotta come in here and work with them, teach them, [Nate] McMillan said, that’s why they brought me here.”

CSI can help you understand and take advantage of the new Masterformat, as well as the new Project Resource Manual. Through chapter meetings, seminars, certification classes, and just studying the documents, you can obtain a good understanding of these new, comprehensive documents. With a little patience and effort you may find that the updated and expanded documents will be a benefit to your office specifications and filing systems.

Pardon the comparison with the Trailblazers team rebuilding but it seemed appropriate with our December, holiday season social event taking place at a Blazer game. Come join in the fun, bring a family member or friend to help encourage the new “reformatted” Portland Trailblazers in their effort toward a bright new future. And, just maybe, the event may encourage us to actively address our approach to Masterformat 2004 in the coming year and into our bright new future!



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

By: Fred Herbold, CSI, CCS



## Architectural Steel - Selecting Exterior Topcoating for Aesthetic Performance

This past September and October Torin Mowbray of Tnemec Northwest presented two programs about coatings that are

particularly applicable for architectural steel. The first program “Selecting Exterior Topcoats Based on Aesthetic Performance” applies to color or clear coatings for any metal. The second program “Perimeter Steel at Risk” focuses on protection of steel that is outside the building thermal envelope and inside the exterior skin or cladding.

This first article will summarize issues that should be addressed when selecting exterior paint finishes. Our next article in January will focus on steel preparation and protective-prime coating. Later, I hope to write about complete shop coating systems for architectural steel.

### Common Architectural Elements

Contemporary buildings employ exterior architectural. Even simple wood-framed apartments use exposed steel elements like cantilevered steel-framed canopies or “Juliet balconies” with steel railings. We want these highly visible elements to maintain high aesthetic quality with minimal or no maintenance. Choosing the right coating is essential.

Ultraviolet light (UV) along with oxygen and water causes most of the damage to coatings; but it can be accelerated by temperature fluctuations, pollution, and rain. Damage can be loss of gloss, fading and color changes, as well as physical performance of the coating.

Chemists formulate coatings to resist the effects of UV by using non-UV absorbing (aliphatic) polymers (fluoropolymers and polyurethanes), reflective pigments (aluminum and titanium dioxide), absorbing pigments that dissipate UV energy harmlessly within the coating, and UV inhibitors that reduce or interfere with UV degradation.

### Colors

The designer’s color choice can greatly affect aesthetic performance. Bright deeply saturated colors use synthetic pigments that are affected by UV and deteriorate quickly. Colors that use inorganic, metal oxides are very stable; this includes titanium dioxide white.

### Polymers

Selecting the polymer (or binder) base has other considerations like VOC content, hardness and ease of application. But let’s just consider gloss and color stability only.

Epoxy is a great adhesive and water barrier. But in UV it yellows, colors fade and it loses gloss rapidly. It is a poor exterior topcoat.

Alkyds also yellow, pigments fade, and gloss will soon degrease rapidly. Alkyd is a poor to moderate choice for exterior topcoat.

Acrylic is not highly affected by UV and there is slow fading and gloss degrease. The more pure the polymer base is the higher an acrylic performance will be. Acrylics are good to very good.

Polyurethane based topcoatings are very good. Pure aliphatic urethane will perform very well.

Fluoropolymer coating based on high proportion of fluoropolymer can retain color and gloss up to 20 years. Fluoropolymers were initially available only as a thermally set coating and limited to factory applications. Since 2000 at least 2 US manufacturers produce a liquid product that can be field applied.

Typical Acceptable Aesthetic Life of Topcoatings:

Alkyd: 3 – 4 years.

Acrylic: 4 – 6 years.

Polyurethane: 7 – 10 years.

Fluoropolymer: 20 years.

Life Cycle Cost: Field-applied fluoropolymer is extremely expensive. However, the cost can be justified for projects with architectural elements located where maintenance would be prohibitive.

*(continued on pg 6)*

# PERKY'S NOTES

By: Perky Kilbourn, CSI



## Note #1

In the last year or so, the Portland Chapter of CSI has lost several members who added a lot to my enjoyment of Portland Chapter of CSI. Most recently was the death of Bob Hesseltine, CSI, CCS, CDT.. He and his wife, Ruth, retired to Oregon from Alaska because they had family close by.

Bob was a very quiet, unassuming architect who I know contributed to Cook Inlet Chapter of CSI. According to the 2001/2002 Northwest Region CSI, Membership Directory and Specifiers' Guide, Bob was the NW Region Archives Chair and a Certified Construction Specifier. I think Bob was also Portland Chapter of CSI Archives/Historian. In addition, Bob was an accomplished painter. Bob was so good that he was asked to exhibit his art work in a Lake Oswego Gallery. I even talked Lee into purchasing one of Bob's paintings for our daughter.

## Note #2

This note is about the first African woman to win the Nobel peace Prize, Wangari Maathai. I really admire this woman on the basis of what she was able to accomplish "one tree at a time".

Quoting the 2004 Nobel Peace Prize Announcement

*Peace on earth depends on our ability to secure our living environment. Maathai stands at the front of the fight to promote ecologically viable social, economic and cultural development in Kenya and in Africa. Maathai has taken a holistic approach to sustainable development that embraces democracy, human rights and women's rights in particular. She thinks globally and acts locally.*

*Maathai combines science, social commitment and active politics. She founded the Green Belt Movement, where for nearly 30 years, she has mobilized poor women to plant 230 million trees."*

## Note #3

This is going to be a report on an article "Shopping by Design" by Henry Petroski which appeared in the November-December 2005 issue of American Scientist. The article starts by discussing the patent "Method and System for Placing a Purchase Order via a Communications Network" followed by the legal controversy which occurred after the awarding of the patent. What I enjoyed was the historical discussion of self-serving stores and Piggly Wiggly stores. In the late 1910's, I know that my mother worked in a grocery store while attending Willamette University. Once my mother commented about getting things for customers. I had been surprised but I can only assume it was not a self-service store. According to this article, it was in 1916 that Clarence Saunders opened his first store operating under the new principal of self service. Saunders expanded his concept into a chain of 1200 stores in 42 states by 1922. Saunders called them "Piggly Wiggly", which Saunders copyrighted and trademarked.

Today, there are very few corner grocery stores and only about 750 Piggly Wiggly stores in 16 states. The supermarket, which is a direct descendant of Clarence Saunders's original concept, has replaced the corner grocery store. The author refused to predict what was going to happen next.

## Note #4

Scott W. Ambler wrote an article "Great Leaders are made" which appeared in the November, 2005 issue of Software Development Magazine. He listed eight core principles that great project leaders share. I am quoting them here.

1. Relentlessly focus on value.
2. Be situational specific.
3. Manage uncertainty.
4. Continuously align to changing situations.
5. Lead with courage.
6. Build strategies that leverage people.
7. Design strategies based on teamwork.
8. Communicate through immediate and direct feedback.

## THE LOSS OF A CSI MEMBER



**HELSELTINE, ROBERT N.** Robert Norman Hesseltine was born on Aug. 24, 1924, in Tulare, Calif. The family moved to Oregon when he was 3. Bob served his country in the Army during World War II. Following the war, he pursued his love of architecture designing several structures for area school districts and the St. John's Lutheran Church. His family loves

being able to drive through the area and pick out Bob's buildings. Two of the joys of his life came to Bob through his first marriage; his two daughters. Later he met his soul mate, Ruth. They enjoyed 42 years together. Ruth enlarged Bob's family with her three children. When the children were grown, Bob and Ruth embarked on a new adventure - they moved to Alaska. During their 24 years in Anchorage they rejoiced in the culture and community of their adopted home. Bob had many interests in life: art (a lifelong passion), architecture (his profession for 50 years), music (he was an active participant in the Anchorage Community Chorus for 24 years), his 60-year membership in the Mt. Hood Masonic Lodge 157AF&AM, his gardening and love of nature. He best loved being able to combine his interests, as when he designed the new symbol for the Alaskan Lutheran Synod. Upon retirement, Bob and Ruth returned to Portland to a home that Bob designed - at least 100 times. Bob especially enjoyed spending time with their great-grandchildren. Again they quickly became involved in community groups. Bob led a full life and he will be missed by those he left behind. We take comfort in the thought that he is with Jesus and those who have gone before. *Published in The Oregonian on 11/3/2005.*



Knowledge for Creating  
and Sustaining  
the Built Environment

## CSI Certification Study Group Registration Begins Now

Every year the Construction Specifications Institute provides an opportunity to attain professional certification in many career-advancing fields:

(CDT) Construction Documents Technologist

(CCS) Certified Construction Specifier

(CCCA) Certified Construction Contract Administrator

(CCPR) Certified Construction Product Representative

These credentials can boost earning potential and add professional value to anyone serious about a career in construction. They are among the most respected in the industry and will attest to the professional expertise and commitment of those who earn them.

**CDT Study Class:** Beginning January 18, 2006, the Portland CSI Chapter will provide classes to help prepare CDT candidates for the March 25 national certification exam. Classes will be held Wednesday evenings, 6:00pm till 8:00 pm at LSW Architects, 1953 N.W. Kearney, Portland.

**Class Fee:** The fee for the study group will be \$100.00 for CSI members and \$155.00 for non-members. The class will be free to students. Sign up for the class with Jane Phifer, (503) 805-2500 or [jane@portlandcsi.org](mailto:jane@portlandcsi.org). This fee does not include study material or registration for the national exams. Registration for the exam can be made through CSI's web site at [www.csinet.org/](http://www.csinet.org/).

**Study Materials:** The certifications exams are largely based on the principles described in The Project Resource Manual - CSI Manual of Practice, fifth edition (PRM) and MasterFormat™, 2004 edition. The CSI Portland Chapter has a limited number of these documents for sale at the following prices:

The Project Resource Manual: \$190 for CSI members; \$250 for nonmembers

MasterFormat™ 2004: \$75.00 for CSI members; \$100 for nonmembers

(These prices represent a 20-40% savings over prices available through the Institute bookstore).

For more information about this and other CSI Certification issues contact:

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*Port of Portland*  
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**Commit to your professional future. Register for Certification today!**



## NOVEMBER MEETING RECAP

## NEW BOARD MEMBER

By: Perky Kilbourn, CSI

How do you turn a Masonic Temple (now called the “Mark Building”) into an Art Museum? The 141,000 square foot Mark Building was the main ingredient in the 10-year \$125 million Portland Art Museum’s master plan. Lisa Petterson and Joe Pinzone, from SERA Architects, gave Portland Chapter CSI members and friends a “virtual” tour of the renovated Mark Building.

Joe started by listing all of the subcontractors who were involved in creating the Art Gallery and up grading the two ball-rooms so they could be rented to interested parties. In addition the Portland Art Museum built an Art Study Center and Library, headquarters for the Northwest Film Center, curatorial and administrative offices for the art museum and an underground “link” from the 1932 Belluschi designed Portland Art Museum Building.

Lisa then discussed the history of the Mark Building. Among other things, the building had been vacant for 12 years and some damage had been done to the building while the building was vacant. Initial planning was to have three distinct areas.

- The first area is a South Gallery Wing which connected through an underground passage to the existing art museum. They designed a flight of stairs up from the underground passage which would allowed the walls to be used for hanging large pieces of art. Each of the four floors, which connect to the stairs, have space for hanging and displaying additional art works.
- The second area is the center portion of the Mark Building which originally had two ball rooms. Apparently, adding an HVAC system to these ball room spaces was challenging. The entrance to the ball rooms is from the Park Blocks through the original brass doors.
- The third area is the North Office Wing with its entrance off Main Street. The Art Museum may be able to expand its facilities across Main Street sometime in the future.

The exterior of the building was altered by putting a “Jewel Box” on top for natural light to enter the building. They used both transparent and translucent glass for a pleat on the south side of the building to make a suitable above ground entrance to the art gallery section.

There was a lot of demolition work performed in order to renovate the building. The design build component engineers and city engineers did not always initially agree on the best course of action.

Construction was finished in time for the October 2, 2005 opening.



Corey Morris is an Associate with Clark/Kjos Architects, and has been a member of CSI since 1998. He is a Portland native and a University of Oregon graduate. He enjoys construction, project management and specification writing, and he is currently leading the office team through the MasterSpec 2004 conversion. CSI is a fantastic organization, and he feels honored to have been asked to join the Board. He looks forward to finding ways he can become more involved and serve the membership of CSI Portland. Welcome aboard Corey!

## WHAT DO YOU SAY *(Cont from pg 3)*

### Specification Recommendations:

Coordinate topcoating with primer and intermediate coating. Determine if manufacturer will warranty the complete coating system.

Specify topcoating in Section 09 60 00 – High Performance Coatings. Include intermediate field-applied coating if required. Reference steel preparation and primer in Division 05. Include field touch-up and correction of primer. Include manufacturer’s representative in pre-installation conference, initial application, and final warranty inspection. Include a mock-up that is coordinated with Division 05. Applicator should be experienced with high performance coatings and approved by manufacturer.

Performance Standards: the following AAMA standards are intended for coated aluminum panels, but can apply to steel topcoatings. Test panels are exposed to the atmosphere in south Florida for the following minimum periods with limits on loss of color and gloss.

AAMA 2603: Basic performance. 1 year.

AAMA 2604: High performance. 5 years.

AAMA 2605: Superior performance. 10 years. Only high content fluoropolymer based coatings can pass this test.

Chances are that most architectural field-applied coatings are not tested this way. However, as high performance polymers and coatings become more available, we should expect to see product data sheets boasting compliance with AAMA standards.

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### Membership

Robert Simmons, BS,CSI,CDT,.....253-946-2436

### Planning

Anne Whitacre, CSI, CCS.....206-521-3506

### Publications

Bob Kenworthy, FCSI, CCS, CCCA..53-931-4826

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Marc Chavez, RA, CSI, CCS.....206-245-2100

### Treasurer & Secretary

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### Mt. Rainier, Tacoma, WA (First Thursday)

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### Spokane, WA (Second Thursday)

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### Portland, OR (Second Tuesday)

Jane Phifer, CSI.....503-805-2500

### Capital, Salem, OR (Third Thursday)

LaVone Clausen, CSI.....503-371-2070

### Willamette Valley, Eugene, OR (Last Thursday)

Rodd Hansen, CSI-I.....541-687-9600

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Jon Farren, PE, CSI, CDT.....208-429-1307

# December 2005

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- 12/8 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 12/11 **CSI Chapter Meeting, Family night with the Blazers**
- 12/12 CSI Membership Meeting, *Noon, Billy Reeds*

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Knowledge for Creating  
and Sustaining  
the Built Environment

Volume 46, Issue # 7

January 2006

# The Predicator

Portland Chapter — The Construction Specifications Institute

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## John W. Mitchell Economist, Western Region, U.S. Bancorp and Principal, M&H Economic Consultants

*Joint meeting with the  
Association for the Advancement of Cost Engineering (AACE)*  
**Tuesday, January 10, 2006**



John Mitchell became the Chief Economist of U.S. Bancorp in 1983. He became their Western Region Economist as well as the principal of M&H Economic Consultants in 1989. Previously he was a Professor of Economics at Boise State University for 13 years. He holds a BA degree from Williams College. At the University of Oregon he received MS and Ph.D. degrees, he is a Fellow of the College of Arts and Sciences and he is a member of Phi Beta Kappa.

John Mitchell will review vital factors of 2005 that shaped our economy and which sectors will influence economic growth and change in 2006. Always an entertaining and educational event punctuated with John's New Year poem.

Special thanks to our event sponsor: Hanset Stainless

**The Princeton Building Ballroom  
614 SW 11<sup>th</sup> Avenue  
Social at 5:30 PM  
Dinner and Program 6:30 PM**

**Cost: \$30.00 pre person with pre-paid reservations by January 5, 2006  
Sponsor a table for 8 for just \$230.00  
Assure your spot for this special event! See enclosed Event Reservation  
Late reservations – and walk-ins (as available): \$40.00 per person**

See enclosed event registration

# PRESIDENT'S MESSAGE

By *Dennet Latham, CSI, CDT*



## “Activities, Goals, and a Measure of Fun”

Welcome to a new calendar year! Time to contemplate the chapter's upcoming activities, consider a few goals for the coming year, and help the Institute celebrate another milestone. One of our Chapter's long term goals is to provide continuing informative and interesting educational programs as well as to have some fun in the learning. So, with that in mind...

January Chapter meeting starts us off with another informative economic forecast for the construction industry presented by Mr. John Mitchell. This year the meeting will be a joint meeting with the Cascade Section of AACE, Association for Advancement of Cost Engineering. So, come meet some new persons, learn about another industry association, and keep your fingers crossed for a positive economic outlook from one of our area's best prognosticators.

The February meeting will allow us to hear another sort of forecast, an update from the Cascadia Chapter of the US Green Building Council, on changes and additions to the LEED rating programs and ongoing activities of the USGBC.

From January 25 to the Construction Documents Technologist (CDT) exam on March 25<sup>th</sup>, the Certification Committee has again organized certification classes but, this year, the classes are based on the new Project Resource Manual (CSI Manual of Practice) and Masterformat 2004<sup>TM</sup>. These classes not only prepare persons for taking the CDT exam but they are superb means for gaining general knowledge of the construction project process from predesign activities through project design, procurement, construction, and new this year, facility management activities. Even if you are not taking the exam, the classes are a good way to understand the construction process and techniques for assembling and coordinating drawings and specifications.

From March 28 to April 1, the Institute will be holding the 50<sup>th</sup> CSI National Convention in Las Vegas with great fanfare to celebrate this milestone. I encourage you to attend this great show if possible. There will be many educational sessions and the largest commercial construction products show around. If you have not been to a national convention, this will be a great year to begin.

On May 2<sup>nd</sup>, at the Oregon Convention Center the Portland Chapter will be holding its 31<sup>st</sup> Portland Products and Services Fair (PPSF) so, if you can not attend the Las Vegas Convention, here is an opportunity to visit with over 100 construction product vendors and attend one of several technical sessions that offer a variety of topics – all the sessions will again offer continuing education credits. The education and PPSF committees are working hard to provide new and timely presentations and speakers.

Then, in October, look forward to an even larger educational opportunity during the NW Region Conference being held at the Doubletree Hotel at Lloyd Center and hosted by the Portland Chapter. There will be 4 days of fun learning activities, social events, tours, and golf, all based around a conference theme of Regional Transportation. We are expecting a large turnout from the eight NW Region CSI Chapters. It will be a wonderful opportunity to meet new people, see old friends, and learn about many topics related to transportation. The Region Conference will provide many interesting sponsorship and volunteer opportunities so keep a look out for upcoming news about the Conference, including an article elsewhere in this issue.

One of the Institute's goals this year has been to encourage each CSI member to reach out to one other person you may work with or know within the construction industry and encourage them to join CSI. If each of us mentored just one person about the benefits of CSI, we could double the membership of the Institute in short order! Just invite one of those persons to a Chapter or Institute activity or encourage them to attend on their own. The Institute's "Member-Sponsor-A-Member" campaign is a nice way for members to help others and receive a little reward for helping the Institute membership effort.

The Chapter Board of Directors is always trying to find ways to help our Chapter provide more and varied informative programs and to communicate the agenda and details for these activities in more efficient ways. To this end, another goal we are pursuing this year is to enhance the content and quality of the Chapter website. In the next few months we will be investigating a new web portal service, updating website information, distributing The Predicator through the website, and examining the possibility of online registration for Chapter events. During this effort it will be helpful to receive feedback from members regarding these enhancements. If you have suggestions or experiences with website development that might be of interest to making our website better please email or call me, Jane Phifer, or one of the Board members.

So there you have it, a brief outlook for our year. Hope you have a great year in all your activities and hope to see you at some or all these upcoming CSI events. Work hard, play hard, have fun, and most of all be safe in all your doings.

## WHAT DO YOU SAY (continued from pg 3)

The ideal primer can do it all. A mio-zinc filled high performance resin based primer that passes the required tests can be used on architectural steel, on exterior steel, on perimeter steel, on fire proofed steel, on slip-critical-bolted steel, and on concrete encased steel.

I'm sure Torin can suggest a product, and other CSI manufacturer's representatives will be happy to help you select one too. Next month this column will review metal preparation.

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

By: Fred Herbold, CSI, CCS



## Perimeter Steel at Risk -

Can One Steel Primer Do It All?

The headliner topic was presented to the Specifier's Share Group in October by Torin Mowbray of Tnemec Northwest. It was the second topic Torin shared

with us. Last month's article summarized "Selecting Exterior Topcoats".

This month we focus on "perimeter steel" to investigate steel corrosion and prevention. Perimeter steel is located outside a building's tempered interior environment and within the weathering skin. Perimeter steel is concealed and yet it is not protected from moisture, pollution and temperature changes. Over time indirect exposure to weather and pollution can cause severe corrosion of perimeter steel. How can it be prevented?

I will add a second concept: Is it possible to use one primer for all steel in a project.

### Mechanism of Steel Corrosion

The driving mechanism of steel corrosion is electrolysis. It's the same process as a battery. Two metallic surfaces in an electrolyte create an electrical potential between them. When the electrical path is connected, the metals will chemically react with the electrolyte.

In the case of steel, the base metal is the electrical path; the electrolyte is water with impurities; the chemical reaction forms rust; and rust continuous to participate in electrolysis (it's not protective). As long as the electrolyte is present, corrosion will continue to dig into the metal.

### Environmental Factors

The following is a list of major environmental factors that contribute to or enhance corrosion:

- Increased humidity and moisture
- Higher oxygen concentration
- Chemical salts
- Higher temperatures
- Presence of chemicals and gases.

Most of these factors contribute to the efficiency of the electrolyte; the more concentrated the electrolyte, the better-faster it works. Higher temperatures in combination with the other factors can create a severely corrosive environment, for example Hawaii, which is wet, salty and warm is more corrosive than Seattle. Higher temperature by itself may not create a corrosive environment, for example Palm Springs, where moisture is absent.

The five factors above should be considered when you determine how corrosive the environment is to which building steel will be exposed. That will determine the extent to which you should protect the steel.

### Perimeter Steel at Risk

Examples of perimeter steel are: relieving angles, loose lintels, clips and anchors, and perimeter structure. It is common practice to protect smaller items by hot dip galvanizing or coating with a zinc rich primer. It is also common for perimeter structural steel to receive sprayed fire proofing material. Sprayed fire proofing material is usually low density gypsum or Portland cement based coating that can wick moisture toward the steel and hold it there.

Perimeter steel is at risk because:

- Sprayed fire proofing material is usually applied to uncoated steel.
- Misconception that sprayed fire proofing material prevents corrosion.
- Protective coating gets eliminated in cost-cutting.
- Chimney effect exposes perimeter steel.
- Perimeter steel needs protection from corrosion.

### Protecting Steel

There are two methods to protect steel, and to prevent electrolysis:

- Apply a physical barrier to moisture
- Introduce a sacrificial metal like zinc.

An effective barrier is a polymer that does not attract water, has very good adhesive properties, and includes fillers to densify without attracting water. Epoxy and urethane are good polymers (or resins) for steel primer. Micaceous iron oxide (mio) is a good filler.

Zinc powder is a good filler and sacrificial metal. It is expensive. The relatively high cost of zinc rich primer is due to the cost of zinc. Too much zinc will oxidize the primer surface, and will interfere with adhesion of top coats or fireproofing.

To protect fire proofed steel, the primer must pass ASTM E 736 Bonding Test.

To prime field bolted connections, the primer must comply with AISC requirements for a Class B surface.

### Specifications in Division 05

Specify steel primers in the same section as the primed steel, or with a direct reference to use the primer specified in your painting section, special coating section, or steel shop finishing section.

Specify the proper steel preparation for the exposure. This can vary from SSPC-SP3 power tool cleaning to SSPC-SP5 white metal blast cleaning. Coordinate preparation requirement with the primer manufacturer's representative.

# PERKY'S NOTES

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By: Perky Kilbourn, CSI



As many of you know, I have been the Laboratory Director of Public Service Laboratories, Inc. for the last few years. On November 17, 2005, the owner of Public Service Laboratories, Inc. decided to close Public Service Laboratories, Inc. This means that I will just be a Consultant Microbiologist.

I have been a Consultant Microbiologist for over 30 years. I was employed by a couple of different laboratories prior to January, 1984 when Consulting Clinical and Microbiological Laboratory, Inc. (CCML) was founded. I was the Laboratory Director as well as the President and only Stock Holder in this corporation. It was decided to close CCML in November, 2002 because of my deteriorating health. I continued to be the Laboratory Director of Public Service Laboratories, Inc. and reviewed the Quality Control/Quality Assurance data on a monthly basis.

## What did a Consultant Microbiologist do at CCML?

*First* - Identify microorganisms from Clinical Specimens such as throat swabs, sputum, urine, vaginal and stool specimens.

*Second* – Identify microorganisms from various Environmental Specimens.

A couple of different local manufacturing companies had microbial contamination of their manufacturing vats.

Samples were received to determine if there was fungal contamination of a businesses or homes.

Answering the question of “How clean is the laundry?” provided samples for culturing as well as a television appearance.

A couple of years ago, after the “Anthrax scare”, CCML was asked to culture spring water for the spores of the bacilli which cause Anthrax. Several months later, the procedure, which CDC recommended for culturing spores of the Anthrax bacilli from water, was almost identical to the procedure CCML had devised for this client.

*Third* – The culture of microorganisms may be included in a Research Grants Proposal.

CCML’s contract on one Research Grant required culturing for microorganisms from specimens which were collected before and after a nursing home patient had showered or been given a sponge bath.

Another Research Grant was designed to answer the question “Does cranberry juice prevent urinary tract infections in nursing home patients?”

A third Research Grant wanted to know why women can not culture themselves and determine whether they have a vaginal yeast infection before they treat themselves for vaginal yeast infections with over-the-counter vaginal fungal creams?

Preparing research reports was a part of my laboratory duties also. I loved to do the research but did not enjoy preparing the report of what I had done. Being a full time Consultant Microbiologist will probably mean that I will do more writing of reports and less laboratory research. If the readers of **The Predicator** have suggestions or ideas for research or consulting, in Environmental or Clinical Microbiology, please call me or leave a message at [jpk@pacifier.com](mailto:jpk@pacifier.com).

## “CSI to the MAX!”

### 2006 NW REGION CONFERENCE

---

Conference sponsorship for this year’s Region Conference in Portland, October 5-8, is a unique opportunity to highlight your company’s products and services to specifiers from architectural, engineering, and contracting firms not only from all over the region, but also from within the second largest CSI Chapter in the nation, all in one place, at one time. Attendance promises to be the best ever with more fun and exciting events to do and see that will entertain you and compliment the conference learning sessions. With golfing, wine tasting and hors d’oeuvres excursion at several vineyards in the Dundee Hills, micro-brew tasting and hors d’oeuvres, art gallery walk, pub crawl, and a tour of the region’s newest mode of transportation, the Portland Tram. The region’s newest LEED Platinum Building will be our destination to tour the Portland Tram, all fairless via Portland’s light rail system, MAX, and the city’s trolley cars. There are so many fun and exciting events the turn out will be huge. Some have already figured that out and amazingly, some sponsorship opportunities are already filled, so **don’t miss the train, call Jane**, (503) 805-2500 or [jane@portlandcsi.org](mailto:jane@portlandcsi.org) to reserve your sponsorship spot today before they are all taken.





Knowledge for Creating  
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the Built Environment

## CSI Certification Study Group Registration Begins Now

Every year the Construction Specifications Institute provides an opportunity to attain professional certification in many career-advancing fields:

- (CDT) Construction Documents Technologist
- (CCS) Certified Construction Specifier
- (CCCA) Certified Construction Contract Administrator
- (CCPR) Certified Construction Product Representative

These credentials can boost earning potential and add professional value to anyone serious about a career in construction. They are among the most respected in the industry and will attest to the professional expertise and commitment of those who earn them.

**CDT Study Class:** Beginning January 25, 2006, the Portland CSI Chapter will provide classes to help prepare CDT candidates for the March 25 national certification exam. Classes will be held Wednesday evenings, 6:00 pm till 8:00 pm at LSW Architects, 1953 N.W. Kearney, Portland.

**Class Fee:** The fee for the study group will be \$100.00 for CSI members and \$155.00 for non-members. The class will be free to students. Sign up for the class with Jane Phifer, (503) 805-2500 or [jane@portlandcsi.org](mailto:jane@portlandcsi.org). This fee does not include study material or registration for the national exams. Registration for the exam can be made through CSI's web site at [www.csinet.org/](http://www.csinet.org/).

**Study Materials:** The certifications exams are largely based on the principles described in The Project Resource Manual - CSI Manual of Practice, fifth edition (PRM) and MasterFormat™, 2004 edition. The CSI Portland Chapter has a limited number of these documents for sale at the following prices:

The Project Resource Manual: \$190 for CSI members; \$250 for nonmembers

MasterFormat™ 2004: \$75.00 for CSI members; \$100 for nonmembers

(These prices represent a 20-40% savings over prices available through the Institute bookstore).

For more information about this and other CSI Certification issues contact:

*Christine Steel, CSI, CCS  
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Port of Portland  
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*Amy Hjelte, CSI, CCS  
Certification Committee Co-Chair  
Portland Chapter CSI  
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[ahjelte@lrsarch.com](mailto:ahjelte@lrsarch.com)  
(503) 221-1121*

**Commit to your professional future. Register for Certification today!**

# TIME TO REGISTER & STUDY FOR CSI NATIONAL EXAMS

---

Nationwide testing for the CSI certification exams is scheduled for March 25, 2006. **Registration for the tests closes January 31, 2006.** Register for the national exams at [www.csinet.org/certification](http://www.csinet.org/certification).

Six leaders of the Portland CSI Chapter will be instructing Construction Documents Technologist (CDT) candidates in a series of Wednesday night study classes beginning January 25, 2006 and continuing through March 15th. **Registration for the study classes closes January 18, 2006.** Instructors are Jody Moore, Rick Heiserman, Fred Herbold, Dennet Latham, Skip Brown, and Ray Totten. Register for the study classes by contacting Jane Phifer, CSI Executive Director, at (503) 805-2500 or by email at [jane@portlandcsi.org](mailto:jane@portlandcsi.org).

If you have already signed up for the CDT study classes, note that the beginning date is **January 25, 2006** – not January 18 as previously advertised.

The CDT certificate isn't just for architects and engineers. The CDT certificate adds value to architectural support staff, construction support staff, interns, product representatives, contract administrators, public agency employees, owners, attorneys, and others working in the construction industry.

Your CDT certificate is a recognition that you have studied methods of understanding, management, and interpretation of contract documents and related paperwork. Then carry that knowledge further by becoming a Certified Construction Specifier (CCS), Certified Construction Contract Administrator (CCCA), or Certified Construction Product Representative (CCPR).

Don't miss your chance to increase your knowledge and credibility in the construction industry. Register for CSI certification classes and exams today!

---

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COMPANY: \_\_\_\_\_

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AMOUNT: \_\_\_\_\_

CARDHOLDER NAME: \_\_\_\_\_

CARD NUMBER: \_\_\_\_\_ EXP: \_\_\_\_\_

AUTHORIZED SIGNER: \_\_\_\_\_

EMAIL FOR CONFIRMATION: \_\_\_\_\_

Class - \$100.00

Books:

MasterFormat 2004 \$ 75.00

PRM                      \$190.00

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**NOTE FEBRUARY MEETING IS ON THE FIRST TUESDAY OF THE MONTH NOT THE SECOND.**

## What's New with LEED® and Where is it Going?

Tuesday, February 7, 2006

Are you up-to-date with the newest LEED offerings? Have you heard the latest about how LEED works on projects? LEED has been in the marketplace for over five years now and has made major inroads in the building industry. Evidence is the development of new versions of LEED for New Construction and the development of new LEED products.

Join us for an update presented by Green Building Services (GBS) Inc. on LEED, including LEED for New Construction version 2.2, LEED for Commercial Interiors, LEED for Existing Buildings and LEED Application Guides. GBS, Inc. has successfully managed the certification of fourteen LEED projects with more than thirty others in process or with certification pending. GBS, Inc. is also one of only five teams on contract with the U.S. Green Building Council (USGBC) to perform certification reviews of LEED project applications.

Following the LEED update will be a panel discussion on where LEED is going and how it is working. Topics will include: designing with LEED in mind, the cost of LEED, who is using LEED and where LEED is headed in the future.

Event will be held on February 7<sup>th</sup> at the Governor Hotel. Please make sure to reserve your spot in advance!

**The Princeton Building Ballroom  
614 SW 11<sup>th</sup> Avenue  
Social at 5:30 PM  
Dinner and Program 6:30**

**Cost: \$30.00 per person with pre-paid reservations by February 2, 2006**

**Sponsor a table for 8 for just \$230.**

**Late reservations – and walk-ins (as available): \$40.00 per person**

**Assure your spot for this special event! See enclosed Event Reservation**

# PRESIDENT'S MESSAGE

By *Dennet Latham, CSI, CDT*



## **“Dear Diary: Rays of Sunshine Penetrating Otherwise Cloudy Skies”**

*Friday:* Cloudy, rain, 40-50 degrees F, Office, 10:00 am. Invited to a meeting with members of DBIA, Design-Build Institute of America, NW Chapter to discuss potential programs DBIA might sponsor in the coming year. The NW Chapter, having been quite active in Seattle is interested in developing programs of interest and increasing membership

in the Portland area. Discussion includes ideas for programs to pursue in Portland in the future. If a person is interested in learning more about DBIA or becoming a member, contact Mr. Hank Sitko, DBIANW Executive Director, at (206) 491-1148. 5:30 pm, call from home; “Honey, no new water in the basement today”.

*Saturday and Sunday:* Cloudy, rain on and off, 40-50 degrees F. Removed rest of wet carpet pad damaged in heavy rain (3.5 to 4 inches in two days) last week, cleaned and dried basement. Hopefully we can save the carpet.

*Monday:* Cloudy, rain, 40-50 degrees F. Blue Moon Café, Noon. CSI Education Committee meeting. Discussed potential speakers and seminars for the Portland Products and Services Fair on May 2<sup>nd</sup> and for the Region Conference in October. We hope to have several informative sessions on sustainability at the PPSF and on transportation at the Region Conference. Some of the committee members are also on the Certification Committee so the upcoming practice sessions for CDT training classes were discussed. 5:30 pm, call from home; “Den, no new water in the basement today”.

*Tuesday:* Cloudy, windy, rain, 40-50 degrees F, office, Noon, CSI Chapter Board of Directors meeting. Worked through standard agenda with finance report, committee reports and new and old business. Region Conference Committee presented a proposed program – great speakers and activities – this should be a wonderful education opportunity. 5:30 pm, Governor Hotel, CSI Chapter Meeting. A Joint meeting with AACE, Association for Advancement of Cost Engineering, Cascade Chapter with program speaker, Mr. John Mitchell. John gave an entertaining and detailed economic picture of the new year and delighted the attendees once again with his poetry skill. The future looks bright for nonresidential construction this year. Several members from other Chapters were present, both Region Directors, Rick Heiserman and Tom Deines, and candidate for Institute Vice President, Bob Kenworthy from the Mt. Rainier Chapter; all reminding us to vote in the Institute ballot. The evening was another wonderful

evening with members of the construction industry. There was much warm conversation, opportunity to meet new persons with AACE, and included one of our longest and most interesting self introduction sessions. 9:00 pm: arrive home, no new water in basement.

*Wednesday:* Cloudy, windy, downpour, 40-50 degrees F, office, 8:30 am. Conference call regarding project with difficult design/construction issue. Potential for contentious session. All parties are present; architect, owner representative, contractor, subcontractor, engineers. Discussion is cordial and informative. Attendees have come to meeting prepared with evidence of problems, history of events, items for investigation, and ideas for potential solutions. Information was considered by all and direction given for pursuing alternative solutions. 2-hour scheduled meeting concluded in 1 ½ hours. Afternoon: bright sun, calm, 50-degrees; office meeting to discuss specifications update to Masterformat 2004. Discuss options for number format and coordination with drawings; considerable effort however, additional Divisions should provide adequate titles for engineering disciplines. What should be done about new work on existing projects with specifications based on Masterformat 95? Arrive home at 7:00 pm, no new water in basement.

*Thursday:* Rained on the way to work, on and off through day, 40-50 degrees F, office, deadlines today. Revised and reviewed specifications needing to be issued tomorrow; coordinating with project architects and drawings. Busy day. Received several CSI related emails – they will just have to wait till later. Arrive home 8:30 pm; no new water in basement and carpet is dry; completed this article.

Living in the Northwest, we are generally comfortable with rainy weather, however, some years can weigh on the soul just a little more than others. This week, full of interesting meetings, lots of conversation with friendly persons, and new learning opportunities both work and CSI related, created rays of brightness in an otherwise gloomy sky. Hopefully, you are experiencing similar dry, sunny times in your week. Hope to see you at our next Chapter Meeting for more warm and informative conversations; this month related to sustainable issues.

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

By: Fred Herbold, CSI, CCS



## **Steel Preparation - A Review of Processes and Applications**

This month rounds out a series of articles on finishing and protecting steel in construction. You may recall that last December we discussed issues and products concerning the top coating of exposed steel. Last month the topic was protecting perimeter steel and the importance of an effective primer.

Preparation creates the base for steel protection and coating endurance. The more effort that is put into preparing steel, the more resistant to deterioration the coating is likely to be. Consequently, it is suggested that steel preparation may vary dependent on the use and exposure of the steel.

This article will review commonly available steel preparation methods; the information is taken from the AIA's MasterSpec® Support Documents, Section 05 12 00, "Surface Preparation." That is followed by recommended preparation methods for various exposures. And finally, some additional suggestions when specifying steel preparation.

### **Two Associations – Some Joint Standards**

Society for Protective Coatings (SSPC) and NACE International combined several of their preparation standards, but not all. Those that are combined are listed with the current combined standard.

#### **SSPC-SP 1, Solvent Cleaning:**

Removes oil, grease, dirt, salts, and contaminants by solvent, vapor, alkali, emulsion, or steam cleaning. Solvent cleaning precedes each of the surface-preparation methods described below because these operations spread oil or grease around and work it into the surface.

SSPC-SP 1 is incorporated by reference into subsequent surface-preparation methods.

#### **SSPC-SP 2, Hand Tool Cleaning:**

Removes loose rust, mill scale, and paint by hand chipping, scraping, sanding, and wire brushing.

#### **SSPC-SP 3, Power Tool Cleaning:**

Removes loose rust, mill scale, and paint by power-assisted hand tools. Methods include power wire brushing, power abrading, power impact, and other power rotary tools. Surfaces inaccessible to power tools must be cleaned as well as possible by the same methods noted in SSPC-SP 2. Power-tool cleaning may not be significantly faster than hand-tool cleaning but is usually less expensive.

Use SP 2 or SP 3 for interior non-corrosive environments. Also use this method for existing exterior steel, because blast cleaning is often not an option. Consider SSPC SP 11, Power Tool Cleaning to Bare Metal, for higher performance.

#### **SSPC-SP 6/NACE No. 3, Commercial Blast Cleaning:**

Removes at least 2/3 of visible residue from the surface area. This method is used for more severe conditions of exposure where a thoroughly clean surface is required. It is less costly than either SSPC-SP 10 or SSPC-SP 5, the other processes that offer a high degree of blast cleaning. Use SP 6 for perimeter steel and exterior steel in mild environments. This is usually a minimum preparation for high performance coatings.

#### **SSPC-SP 10/NACE No. 2, Near-White Blast Cleaning:**

Leaves at least 95% of the surface area free of visible residue, blast cleaning it to nearly white metal cleanliness. This method is about 25% cheaper than SSPC-SP 5 and is intended for highly humid, chemical atmospheric, marine, or other corrosive environments.

#### **SSPC-SP 5/NACE No. 1, White Metal Blast Cleaning:**

Removes all visible rust, mill scale, paint, and foreign matter by blast cleaning by wheel or nozzle (wet or dry), using sand, grit, or shot. This cleaning process is the most expensive and should be used only where an absolutely clean steel surface must be provided. This process is normally limited to steel exposed to very corrosive atmospheres and for immersion service where the high cost is warranted.

#### **SSPC-SP 8, Pickling:**

Paint and heavy deposits of rust and scale are removed before pickling. Rust and mill scale are then completely removed by chemical reaction, electrolysis, or both.

Pickling is not commonly used by structural steel fabricators or for large fabrications. However, it is commonly used by coating shops that specialize in high performance metal coatings. For this reason, it can be specified as an alternative preparation method for "manageable" fabrications that will likely be sent to a specialty coating shop.

#### **Specification Tips**

Specify steel preparation in the same Section as the steel product. Alternatively, when several steel fabrication Sections require the same special coating, Section 05 05 13 – Shop-Applied Coatings for Metal, can be used. Then specify preparation in Section 05 05 13.

Specify the maximum time between preparation and application of the primer. For commercial blast cleaning and better, I suggest not more than 8 hours and never over night, unless the prepared steel is kept warm and in low humidity.

(cont pg 6)



# PERKY'S NOTES

By: Perky Kilbourn, CSI



## First Note: Alaska Highway

November, 2005 issue of *Sunset Magazine* had an article "The road not taken, maybe." It says that from Juneau, Alaska you can drive south about 5 miles and then the road stops. You can drive east up Mt. Roberts until you run out of road. You can drive west across the bridge to Douglas Island. But since Douglas Island is an island, you

have to come back to Juneau. You can travel north for about 40 miles on the Glacier Highway when you will see a big warning sign "TRAVEL BEYOND THIS POINT NOT RECOMMENDED". Yes, Juneau is the only state capital not reachable by a road. My parents liked to tell the story about my sister (when she was about 2 years old) asking "When are we going to come to the end of the road?" This was her first trip "outside" and she was familiar with Alaska where the roads all ended. The Alaska State Department of Transportation has proposed a \$200 million highway that would run 50 miles north from the end of the Glacier Highway to just past the Katrehim River. Not everyone likes the idea and it prompted "op-eds" in the *New York Times*. It will be interesting to see what happens next.

## Second Note – Radio-Frequency-Identification-Technology

The next thing that interested me was the news story about the woman who apparently had a stroke and called her daughter on her cell phone. The woman was disoriented and didn't know where she was or what had happened. They traced the cell phone to a fairly large area and then they had to search the area by foot. When they found the woman, she was dead and apparently it was a stroke. But what I found interesting was the use of the cell phone to locate her. Apparently there is a Canadian company that is adding radio-frequency identification technology to its pay-by-cellular-phone parking application. This will mean that a wave of a credit or ATM card will be as effective as a bunch of quarters. California already has something similar and the concept may be expanded so that you will be automatically called on your cell phone to remind you when your parking meter is set to expire.

## Third Note – Saving Fossil Fuels

Mindy Pennybacker is the editor of *The Green Guide* which is published by the Green Guide Institute. In the January/February 2006 issue of *World Watch* there was an article "Controlling Energy Costs" by Mindy Pennybacker. In the article were the following suggestions for saving on fossil fuels this winter are:

1. Turn down the thermostat or install a programmable thermostat.
2. Avoid drafts and seal all holes, cracks and gaps where air can escape.
3. Install energy-efficient compact fluorescent light bulbs
4. Launder clothes in cold water as much as possible and hang wet items on a line or drying rack whenever you can.

5. Install low flow showerheads which reduces water usage and also water heating costs. In addition you can lower the temperatures on the water heater and wrap the tank in an insulating jacket.
6. Buy energy-efficient appliances – the last time we purchased a refrigerator, I noted that the energy efficiency was noted on the refrigerator door.
7. Use power strips for home electronics and office machines and turn them off when not in use. A laptop uses as little as one-fifth the energy of a desktop computer and may have other power-saving features.
8. Buy local food and eat low on the food chain. Mindy Pennybacker did not suggest it but you can always have a community garden and grow your own food.
9. Invest in sweaters and blankets that will deliver lasting off-the-grid warmth.
10. Banish chilblains by snuggling up with a loved one.

## Fourth Note – How much do University Presidents publish?

Since the motto for many University Professors is "Publish or Perish" I found a report on the number of citations by University Presidents of interest. Amanda Goodall, a doctoral student in strategic management at Warwick Business School, United Kingdom, tallied all the citations amassed by presidents of the world's top 100 universities. In the United States there appears to be a correlation between the number of citations racked up by university heads and the standing of the schools they lead. When the 51 US schools on the list of top 100 universities are excluded, the correlation doesn't exist. Just being heavily cited and therefore presumably a skilled researcher does not mean you are a strong leader. When one hires a person who has a lot of citations to head a university it is a signal from the trustees to the faculty that research is the core concern.

## Fifth Note – O-Words

In the December 2005 issue of *American Laboratory* was an article entitled "Oh! How Obvious!" by Daniel J. Schneck. Schneck has been doing a series of articles on words beginning with a particular letter. Previous articles included C-words, F-words, I-words, and L-words. I had thought about quoting them in Perky's Notes but finally decided that I really had to quote this one.

1. Observe – being actively engaged in the visual process.
2. Objectivity – the impersonal, active, cerebral processing of information
3. Open-mindedness – free of paralyzing assumptions, presuppositions, and other biases
4. Optimism – accepts that this is currently the best of all worlds and expects it to get better.
5. Optimize – make things more efficient, more effective, the best they can possibly be.
6. Obligations – being a responsible citizen of society, and a conscientious individual
7. Obedience – unchallenged domination and ruling control, over another individual.



# JANUARY MEETING RECAP

By: Perky Kilbourn, CSI

In January 2006 Portland Chapter CSI had a joint meeting with the Cascade Section of AACE (Association for the Advancement of Cost Engineering) and again, we heard John W. Mitchell speak. John W. Mitchell had spoken to a joint meeting of Portland Chapter CSI and ASPE (American Society of Professional Estimators) in January, 2005. John W. Mitchell is an Economist, Western Region, U.S. Bancorp and Principal, M&H Economic Consultants.

This year Mitchell's first slide was "A Scan" which summarized what has happened.

First - this is the fifth year of an economic up turn.

Second - this is the end of the Volcker-Greenspan Era on interest rate control.

Third - the Energy and Weather have played a more significant role in the economy than usual.

Fourth - the Global Economy is stronger

Fifth - the Housing Starts are peaking so the housing boom may be over.

Sixth - there may be a Disconnect between what happens with oil and gas prices and the average person.

Seventh - The gloom of the Federal government doesn't match the performance of the market.

Mitchell then discussed weather issues which he said were significant for the first time this past year. With Katrina and Rita there had been a destruction of wealth. There were output losses and energy/port disruptions. Federal spending has changed and there may be a Reconstruction-Movement. So far, only 25 to 30% of the population has returned to New Orleans and many people may not return to New Orleans.

Mitchell's slide showing Trends and "Construction Put in Place" was almost the same in 2006 as in 2005. Items with slight growth were Housing, Health Care Facilities, Education, Sewage and Waste Disposal, Lodging, Commercial, and Highway and Street work. Office, Communications and Manufacturing had gone from negative to positive percentages (trends).

The GDP (Gross Domestic Product) growth has been the most stable it has been since the data started being collected. The Payroll Job Change has also apparently stabilized with an unemployment rate of 4.9% as of December, 2005. The employment rate has declined in Louisiana but increased in the rest of the country so the unemployment rate averages out when considering the country as a whole. The labor market is tight with employment up except for manufacturing. The Yield Curve (Interest) was increasing until 2004 but appears to be flat in 2005 because long term mortgage interest rates are stable though short term interest rates appear to be increasing.

Mitchell's prediction for 2006 is that GDP will be 3.5% (3.2 to 3.7% was his 2005 prediction). Inflation will be from 2.8 to 3% while Mitchell's 2005 prediction was for inflation to be from 2 to 3%. The Federal Government is manipulating the interest rate based on the data and savings may continue to hold down the long term interest rate. An inversion in the Yield Curve is often followed by a recession but this time things may be different because of the extra money people have which may affect the response of the Federal Government.

Mitchell had a slide in 2006 which had not been used in 2005. It was called "Nightmares and Pleasant Dreams" and reflected on the good and bad things which are effecting the economy.

The bad things are

Home Prices (Weakness)

Energy Shocks

"Adjustables" which "Adjust" (Long Term Interest Rates)

International Developments

Aging Boomers

On the positive side are

Energy Shock (Down)

Productivity (Up)

Stronger World Economy.

Mitchell does not appear to be overly worried about the economy.

First - there is an equity cushion - more people have more equity in their homes.

Second - the ARM % (Adjusted Rate Mortgages) is less than in the late 1980s which is when the country was coming out of double digit inflation.

Third - most Booms End with a Whimper (not a crash).

Fourth - the User Cost of housing is not out of line with historical data - which includes forgone interest, tax benefits, maintenance, capital gains etc.

One thing which needs to be observed is the effects of Demographics, specifically that the first of the Baby Boomers turned 60 this year. The labor force grew 1.7% from 1950 to 2000 but is predicted to be down 0.8% from 2000 to 2050. There may be a problem replacing the retiring Boomers. How GM, the steel companies, IBM and other entitlements are doing may be an indication of a downturn in the economy like the Canaries in the Mine and unfunded liabilities. For those of you who don't know, miners used to take Canaries in Cages into mines. When the Canaries died in their cage in a mine, the miners knew they needed to take immediate action because their air was deteriorating. Maybe the long term prospects are deteriorating.

(Cont on pg 6)

## **MEETING RECAP** (cont from pg 5)

With regard to Construction Employment in 2006 Mitchell indicated that Commodity Price Pressures Remain, including Concrete, Copper, Diesel, Natural Gas Derivatives, and Asphalt. Office Vacancy Rates are declining, while Capacity Utilization is rising and Hotel and Lodging are improving. The Infrastructure Funding is rising, i.e. there is an increase in construction of structures for education. The Housing starts are “cooling” and the Labor Markets are tightening. In 2005 Mitchell had indicated there was a Rising (Interest) Rate Environment. There was probably going to be a Slower Residential Appreciation, there was no “Pent up Demand”, with a peak in 2004 and softening in 2005 and the Late Herb Stein’s Dictum (if something can’t go on forever it won’t) and Non-Residential strengthening with job growth.

Mitchell presented many other points but these seemed significant to the author. To learn more of Mitchell’s points, be sure to come to Mitchell’s next presentation for Portland Chapter CSI which will probably be in January, 2007. As you can tell, Mitchell gave a thought provoking presentation though there was no discussion of the three unresolved issues from January, 2005 Portland Chapter, CSI meeting, namely

- Oregon’s Fiscal System
- Entitlements Issues on the Table  
(What to do with payments for the Baby Boomers that retire?)
- Sorting out of Measure 37 (How much will it cost?).

Mitchell ended his presentation with a poem which seemed to indicate that 2005 had been a positive year.

## **WHAT DO YOU SAY** (cont from pg 3)

Consider specifying inspection of commercial blast cleaned steel (and better). Inspection can be replaced by a requirement that the coating facility (when specifying shop-applied special coatings) have NACE certified inspector and quality control program.

Check a “basis of design” primer data for its surface preparation requirement. Make sure you specify equal or better preparation. You may want to require better preparation to increase the coating durability.

Contemporary architecture incorporates many exposed steel products. Proper surface preparation of the steel prior to coating is essential for maintaining their appearance over time.

## **NW REGION CONFERENCE**

Plan Ahead! The 2006 CSI NW Region Conference at the Lloyd Center Doubletree Hotel on October 5-8 is a regional commitment from the Portland Chapter to bring interesting continuing education current issues and topics to the membership in a fun and comfortable surrounding. This forum provides collaboration and networking opportunities and a time for strengthening old relationships and developing new and in an atmosphere of camaraderie. The date is rapidly approaching so this is the time to start thinking how you may capitalize on this exciting opportunity. Call Jane (503) 805-2500

## **CSI GOLF TOURNAMENT**

2006 Annual Golf Tournament is scheduled to at Lewis River Golf Course, Thursday, August 24  
Shotgun start at 1:00 PM.

You won’t want to miss this fun event!

Sponsorships are still available.

Contact Erica Bitterman with questions or to signup.  
Ph - 360-567-2910, ebitterman@precisionimages.com.

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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)

Andrew Estep, CSI.....206-382-3393

### Mt. Rainier, Tacoma, WA (First Thursday)

Jerry Litwin, CSI,CCCA.....253-584-5207

### Spokane, WA (Second Thursday)

Eric Rieckers, CSI..... (509) 535-0301

### Portland, OR (Second Tuesday)

Jane Phifer, CSI.....503-805-2500

### Capital, Salem, OR (Third Thursday)

LaVone Clausen, CSI.....503-371-2070

### Willamette Valley, Eugene, OR (Last Thursday)

Rodd Hansen, CSI-I.....541-687-9600

### Idaho, Boise, ID (First Tuesday)

Jon Farren, PE, CSI, CDT.....208-429-1307

# February 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				

- 2/6 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*
- 2/7 CSI Board Meeting, *Noon, AIA Office*
- 2/7 **CSI Chapter Meeting, LEED Update**
- 2/9 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 2/21 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*
- 2/23 CSI Specifiers Share Group Meeting, *Noon, ZGF*

**Note: The Predicator will be going electronic in the next month. Please make sure that your email address is current at the CSI Office. Email [jane@portlandcsi.org](mailto:jane@portlandcsi.org) if you do not currently receive broadcast emails from CSI regarding the Chapter Meetings.**

# March 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	

- 3/6 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*
- 3/7 CSI Board Meeting, *Noon, AIA Office*
- 3/9 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 3/14 **CSI Chapter Meeting, Construction Code of Ethics**
- 3/14 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*
- 3/23 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 3/28 - 4/1 CSI 50th Anniversary CSI Show and Convention, *Las Vegas*



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 Salem, OR 97304

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**NOTE CHAPTER MEETING IS ON FIRST TUESDAY!!**





Knowledge for Creating  
and Sustaining  
the Built Environment



Volume 45, Issue # 10

March 2006

Portland Chapter - The Construction Specifications Institute

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Web site: www.csinet.org

## BEST PRACTICES TO AVOID & RESOLVE CHANGES, DELAYS, CLAIMS

*Tuesday, March 14, 2006*

Changes, delays, and claims present serious problems for the design and construction industry. They affect the bottom line for all parties and are a source of grief for everyone. But, they can be largely avoided, and resolved without claims, with Best Practices.

The presentation will look at Best Practices that project owners, designers, and contractors can use to minimize these problems and to avoid and resolve disputes that may result. It will be based on a survey that Pinnell/Busch conducted in early 2005, the results of which were presented at the annual conference of the Project Management Institute College of Scheduling in May05. An expanded survey will be presented at the Association for the Advancement of Cost Engineering (AACE) International conference in Jun06.

Specific topics to be covered include:

1. A summary of the survey results and the current status of the new survey.
  2. A discussion of how to minimize changes and largely eliminate claims.
  3. Review of a new Master Specification for construction scheduling, with detailed guidelines on why certain clauses are needed and how to adopt them for different types and sizes of projects.
  4. Recommended practices for owner representatives and contractors for preparation and review of schedules.
- Tools for analyzing time extension requests and determining reasonable compensation for the cost of delays, acceleration, and impact.

**The Princeton building Ballroom**  
**614 SW 11<sup>th</sup> Avenue**  
**Social at 5:30 PM**  
**Dinner and Program 6:30**

**Cost: \$30.00 per person with pre-paid reservations by March 9, 2006**

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# PRESIDENT'S MESSAGE

By *Dennet Latham, CSI, CDT*



## Refabricating Specifications

A few days ago a designer in our office gave me a brief overview of Autodesk® Revit®, one example of the next step in design software that approaches design not by simply drawing lines with mouse and keystrokes but, by entering attributes about different building components, or in graphic terms “parametric objects”, in a process of creating a 3D model of a building, commonly known as “BIM”,

building information model. Apparently, these graphic objects are in a way intelligent as they, through a set of predefined rules, or user-defined rules, are able to understand how to relate to and integrate with other objects in the building model. For example, if one defines a wall to extend to the next higher floor or the roof, and there is a change in the elevation or layout of the floor or roof above, the wall below will automatically change to continue to extend up to the revised floor location; saving considerable time in drawing revisions. In a similar integrated association, door schedules are developed automatically by defining attributes of door objects in the model. Then, when the dimensions of a door are changed in the model, the schedule is automatically updated and, in reverse, if the door dimensions are changed in the door schedule, the building model is updated automatically. Having a virtual model of a design that is able to revise different components automatically as more information is added to the model should save designers tremendous amounts of coordination time and lead to more complete and well coordinated documents.

In “Refabricating Architecture: How Manufacturing Methodologies Are Poised to Transform Building Construction” by Stephen Kieran, FAIA, and James Timberlake, FAIA, McGraw-Hill, 2004, the authors investigate whether it is feasible for the traditional build-it-in-place construction industry to learn new fabrication techniques from the current manufacturing trends in the automobile, ship building, and airplane industries. In attempt to work more efficiently, add value to the end product, shorten the manufacturing schedule, and lower the overall manufacturing cost of the product, all three industries have essentially retooled their traditional fabrication methods of building products in place, or in assembly line fashion, to move toward manufacturing modular components for much of the end product at offsite factories, and in many cases by outside subcontractors. Then those components are shipped to the final point of assembly and the modules are “joined” together very quickly.

Since the final assembly requires parts from various suppliers, the interconnecting components must be totally compatible so the joints mesh exactly during final assembly. This manufacturing

process has led to a rethinking of the design process and requires early participation and intricate coordination between the product designer, manufacturer, and component subcontractors to ensure that the components will come together successfully during final assembly – an interdisciplinary and integrated design and manufacturing process. Sophisticated “BIM” type design software has also helped these industries make the integrated approach successful.

Along with these new manufacturing processes there have been new design solutions to help make the assembled products more efficient in use of materials, reduce the number of different parts, use new lighter, stronger materials to replace traditional materials and improve layout of materials to help make the end product more cost efficient, safe, and of higher value to the consumer. An example of this is the “cockpit” component of an automobile manufactured by Delphi Corporation that includes a fiber-reinforced plastic support frame, instead of steel. This support frame acts as the backbone of the cockpit off which other components are supported, provides structural protection for occupants of the car interior, weighs less helping to reduce overall weight of the car and also, being tubular in shape, acts as ductwork for the car’s interior air circulation system. This creative, integrated approach to automobile design has helped make the end product have higher value while using fewer resources, essentially, doing more with less. (Kieran Timberlake, page 35-37).

New enhancements to the commercial master guide specifications, like Arcom Masterspec® with the Lynx® program, e-Specs® with an automatic drawing keynote interface with project specifications, and SpecLink™’s integration between different sections in project specifications, between different parts of an individual section, and between MasterFormat™ 1995 and 2004, are also working toward a more integrated and efficient way to develop construction documents.

At the National Convention this year in Las Vegas, along with 120 other education seminars, there is a keynote presentation by Gehry Associates about BIM and a seminar entitled “BIM: How does the emerging Building Information Model Concept Relate to Specs?” There is much to learn about these enhancements and how they may be incorporated into the office, factory, and construction site working environment. Electronic integration of drawings and specifications and a more integrated construction industry involving early and close networking among Owners, designers, material manufacturers, and contractors seem inevitable.

Embrace the future and enjoy the journey.

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

By: Fred Herbold, CSI, CCS



## **Skylight and Canopy Systems - Section 08 63 00 – Aluminum-Framed Skylights**

In January the Share Group enjoyed a presentation on skylights and canopies by Jody Moore, CSI CDT and Michael Muhle, CSI CDT from DeaMor Associates.

Jody and Michael enlightened us with tips on daylighting and design, strengthened our understanding of aluminum framing structures, and cleared up our vision of transparent glass.

### **Daylighting and Design Considerations**

Too much daylight or too much glare are common problems, if skylights don't get enough attention during the design process. Designers should always remember that daylight has two components: sunlight and skylight. The first is dramatic, intense, a point source, high energy (heat) and warm color. The second is subtle, diffuse, low energy and cool color.

Skylight orientation, size, shape, location and glazing can all be used to achieve the desired effects. The best method to assure these effects is to test a model. Here in Portland we can use the Better Bricks Daylighting Lab operated by the University of Oregon; [www.betterbricks.com](http://www.betterbricks.com).

Functional considerations to remember: self-cleaning glazing needs to slope at least 30 degrees to keep the glass clear with limited maintenance; water-tight glazing needs a slope of 1:12 or greater.

### **Skylight and Canopy System Types**

Manufacturers of metal-framed skylights offer standard, pre-engineered systems with standard parts. These are more economical than custom-designed skylights and canopies. However, some manufacturer's like DeaMor offer complete design-build service for custom designs as well as pre-engineered systems.

Many standard shapes and configurations of aluminum-framed skylights are available. It is wise to consult with the "basis of design" manufacturer to establish the size and span limitations. Coordinating skylight framing with the building framing can save time, money and construction effort.

Pre-engineered skylight units with automated vents are now available. They address the double challenge of natural lighting and natural ventilation for more sustainable buildings.

Jody and Michael showed three glazing methods. Captured glazing holds the glass to the frame using a covercap with gaskets or seals. Structural glazing uses a structurally rated sealant-adhesive between the frame and glass and joints are filled with sealant. Point-supported glazing uses a device that either grips or penetrates the glass leaving the glass edges open.

### **Details are Important**

Captured glazing works well for the ridge and rafters. Horizontal joints in glass over cross framing should have a continuous silicon sealant joint flush with the glass surface to prevent water damming. Glass must be held from slipping by a mechanical restraint at the eave. The preferred eave glazing detail is a block or plate that is flush with the top surface of the glass so no watered is dammed.

Canopies with projecting or cantilevered eaves need to have the glass held from slipping as well. An aluminum edge can restrain the glass and protect the otherwise exposed inner layer of laminated glass.

Skylights with insulating glass units can condense water. The framing system must have an interior gutter system. The gutters of cross framing members should cascade their condensate into the rafter gutters. A weep system with a baffle at the eave framing and flashing must drain condensate outside.

### **Glazing Possibilities and Considerations**

Short of adding blinds or shades below skylights, the designer's last chance to control light and heat is selecting the glass or its performance characteristics.

Solar control coatings, low-E and reflective, can increase shading and decrease interior heat loss with limited affect on visible light transmission. There is a good variety of coatings available and more-better coming soon.

Tinted and heat absorbing glass controls light and heat. However, the aesthetic affect to the tint on interiors should be considered.

Fritted patterns on glass can shade and provide aesthetic benefits. Powdered glass frit is applied to the glass and then fired to a durable finish. Frits are available in black, white and several colors. There are standard patterns of dots, squares and lines, but custom patterns and designs are possible.

Remember Safety: Laminated safety glass protects people from possible glass breakage. The laminated glass must always be toward the people in an insulation unit.

(cont pg 6)



# PERKY'S NOTES

By: Perky Kilbourn, CSI



## **First Note: - Sustainable Land Use.**

The January 2006 *Water and Wastes Digest* contained a discussion by Curtis J. Sparks, P.E., which is worth reporting. Respect for the land is sometimes easier said than done. Regulators and Developers are expected to maintain natural features but also create livable communities.

There is a demand for residential growth which includes, among other things, a desire for open space and an adequate waste water systems. It makes economic sense to employ plants and microorganisms to provide a "green" choice for wastewater treatment. A subsurface flow wetland is ideal for residential sewage treatment because the liquid flows horizontally through a gravel bed planted with wetland plants. No liquid is exposed during the treatment process so there is no place for mosquitoes to reproduce and there is no odor. There are also vertical flow processes which can be insulated and work well in cold climates. In conclusion, by engineering wetlands, one can create an open space for human recreation and still preserve the wildlife habitat.

## **Second Note: - Misuse of Biological Research**

The January 15, 2006 issue of *Genetic Engineering News (GEN)* included an article by Filippa Corneliussen, Ph.D. about the adoption of codes of conduct for bio-scientists. The two areas which seem to be of the most concern are first the enhancement of virulence of a pathogen and second how to render a vaccine ineffective. The conclusion is that scientists should not perform research to turn microorganisms into biological weapons or into weapons for bio-terrorism.

## **Third Note: - Pay and Peanut Butter**

The *Firsthand View* by Dale Daulen in the January, 2006 issue of *CAP Today (College of American Pathologists)* caught my eye. My family has been using peanut butter for peanut butter and jam sandwiches for years. Chunky peanut butter, (peanut butter with peanut pieces) does not spread as evenly as creamy peanut butter (without peanut pieces). Human resources people call the "Peanut Butter Method" when pay raises are spread around evenly. Alternately, this article suggested that paying people for performance will motivate people. People will perform better to obtain more money (peanuts) which will result in the raises (peanut butter spread) not being even. Pay is pure motivation and many people will respond to it.

## **Fourth Note: - Evolution versus Intelligent Design**

An article written by Pat Shipman in the November/December 2005 issue of *American Scientist* had an interesting title about scientists being stalked by intelligent design. Many non-scientists may not know that there currently is a debate going on between those that explain the world around us on the basis of the theory of evolution and those that believe in intelligent design. On October 18, 2004 the school board in Dover, Pennsylvania changed it's official curriculum, mandating that

"Students will be made aware of gaps/problems in Darwin's theory and of other theories of evolution including, but not limited to intelligent design. Note: Origins of life will not be taught."

Seven biology teachers in Dover refused to comply and risked their jobs by writing a powerful letter to the superintendent of schools. In their letter the teachers wrote that intelligent design is not science, is not biology and is not an accepted scientific theory. Those people who believe in intelligent design do so because they believe that the living organisms on Earth are so complex and so intricately constructed that they cannot have arisen through the unguided action of natural selection and thus there must be an intelligent designer. The intelligent designer could be God or an alien. In at least 40 states, intelligent design is being considered as an addition to the required science curriculum in public schools. Some teachers are so intimidated by the threat of parental complaints that they skip material dealing with evolution in their classes. The intelligent design movement is more than an attack on biology because evolutionary theory unifies the life and earth sciences with physics and chemistry. Intelligent Design is really religious prejudice masked as intellectual freedom.

## **Fifth Note – Current Hypothesis on Beginning of Life.**

In the January/February 2006 issue of *American Scientist* was a discussion by Michael Russell of the beginning of life. Geochemists who study the ancient Earth are making and testing hypotheses based on their knowledge of the early conditions of the earth.. Microorganisms are at the bottom of the food chain and use hydrogen and carbon dioxide to synthesize organic compounds. All other life forms rely on, exploit and consume those cells that combine hydrogen and carbon dioxide. As early as 1988 it was suggested that the warm, alkaline (basic) springs at the bottom of the acidic ocean could have provided the conditions that resulted in the emergence of life. In 2000 oceanographers found structures 800 meters below the ocean surface that were similar to the structures these authors had predicted in 1988. These structures are hollow and could have provided pockets which would trap and concentrate organic molecules (simple proteins). Scientist have not yet created nucleic acids (primitive nucleus) though the reactive components for ribonucleic acid were readily available in the primordial soup. The optimal position for this synthesis of nucleic acid to occur is a position which is deep enough to be protected from harmful solar rays but shallow enough to use radiation at longer wave length to make organic molecules from carbon dioxide. In conclusion understanding how life started and how it works has encouraged scientists to be responsible for good housekeeping on this planet.

**Grand conclusion from these five notes** Consuming natural resources as fast as humanly possible may be convenient but sustainability really makes more sense. One should be rewarded for thinking outside the box with regard to environmental sensitivity. Could Portland Chapter CSI create an award for someone who has demonstrated environmental sensitivity long before it became popular to do so? One example would be Margie Largent's environmentally sensitive house, which she designed and helped build in the 1940's.



# FEBRUARY MEETING RECAP

By: Perky Kilbourn, CSI

LEED® started more than 5 years ago and seems to be of interest to Portland Chapter CSI Members and people in the construction industry. This interest was demonstrated by the 120 people making reservations.

Melissa Marton introduced the moderator and panel. Alan Scott, CSI, LEED AP, AIA, who is with Green Building Services (GBS) moderated the panel composed of Brandon Smith of the Cascadia Chapter of U.S. Green Building Council, Greg Acker, AIA, from the City of Portland, and Alexander Lungershausen, CSI, LEED AP, AIA, who is with Thomas Hacker Architects.

Alan Scott started by telling a story about the interrelationship between energy and design. When a lady was told that her windows would pay for themselves in a year, she did not realize that didn't mean she did not have to pay for them at all..

Alan began by discussing the various currently existing versions of LEED's, including

- LEED for New Construction version 2.2
- LEED for Commercial Interiors
- LEED for Existing Buildings
- LEED Application Guides

There are other versions of LEED's being developed, namely

- LEED for Foreign Construction
- LEED for Homes (Residential)
- LEED for Commercial Buildings – Core and Shell
- LEED for Health Care Facilities
- LEED is also being adopted and modified in other countries.

There has been some frustrations with the existing LEED for New Construction (v2.2) and a revised version of LEED for New Construction was recently issued. Customer complaints which are being addressed include

1. Documentation
2. Improving Product Interpretation
3. Management
4. A more trusting rather than policing process
5. Trying to preserve the integrity of the LEED

The specific goals are to improve the clarity and objectivity of LEED, but not to add credits. U. S. Green Building Council (USGBC) wants to make the requirements for LEED Documentation easier to understand and submit. Currently there is no feedback as to whether what is being constructed will qualify for LEED credits until after the construction is completed. The USGBC has started a new process where the project team is able

to have a dialogue with USGBC LEED reviewers as the building is being designed. This dialogue may include interpretations that can be included as documentation for the LEED Certificate. There is a new fee structure with a reduced flat fee for initial project registration followed by design phase and construction phase certification review fees based on project square footage.

There is growing interest in LEED for Existing Buildings (LEED-EB). This rating system focuses on facility management practices and actual building performance measures including energy and water use. Tracking for 3 months to a year is required to document performance for LEED credits. With LEED-EB, the USGBC is just beginning to evaluate how a building performs relative to how the building was built to perform. [For example an owner may want a plaque stating the LEED Certification level of the building when the building is first occupied. Unfortunately, the LEED Certification level may not be available when the building is first occupied.] *[not sure I understand this example relative to LEED-E. You could say the following]* There is a tremendous latent demand for LEED-EB considering the growing number of building owners who may want to differentiate their property but are not going to initiate a major renovation. There is also increasing interest among businesses to locate in certified green buildings, but a limited number of new LEED commercial buildings being built, while there are many existing buildings that become LEED-EB certified..

There was some discussion of various products (new soy-based resins replacing urea-formaldehyde resins) and USGBC interest in establishing LEED credits that more fully account for the environmental impacts of products. Product manufacturers may be able to help establish a common environmental performance metric on which to base LEED requirements for products. Some LEED credits are based on the potential health impacts of products used on site (interior) but do not address the potential health impacts during manufacturing. The government wants LEED certifications for its buildings and LEED for Existing Buildings may help bring older buildings up to code.

The closing remarks by the panel members included statements about sustainable urban planning. LEED can be used to make a building more sustainable which effects the real estate market. The financial community needs to understand the value of the LEED Certification Program and its place in the marketplace.

## WHAT DO YOU SAY (CONTINUED)

Finally, the structural performance (strength and thickness) of glass should be part of the design-build requirement in Section 08 63 00. It's not a bad idea to specify minimum glass thickness.

### Considering Specifications

Did you say "design-build"? Right. Even pre-engineered skylight systems should be specified as design-build products. It's most important to include the structural loads in the specification or on the drawings. Fall protection loading should also be required when maintenance people could accidentally fall onto the skylight.

Performance standards are ASTM E 330 (structural performance 1.5 times wind design load); ASTM E 331 (no water penetration) specify 20% wind design load or specify 10 psf; ASTM E283 (air leakage) specify 0.06 cfm/sf at 1.57 psf or at 6.24 psf.

A more stringent and expensive factory test for water leakage is AAMA 501.1 test under dynamic pressure. Specify 20% wind load or up to 12 psf.

Field quality control testing should be performed by Owner's testing agent. AAMA 501.2 is the more economical water spray test. ASTM E 1105 is the expensive test employing pressure and water. Make sure the Owner needs and desires this test. You have to specify some options also. Specify that either of these tests shall be performed before interior finishes are installed.

### LEED Credit Assistance

Credit MR 5, Regional Materials: skylights, framing and insulating glass units can be fabricated within 500 miles of Portland.

Credit MR 4, Recycled Content: both aluminum and glass should contain recycled material. Expect 20% or higher.

EQ 4.1, Sealant VOC: Silicone sealant and adhesive should be well within the limit.

You miss the great photographic examples and personal presentation when you're not at our Specifiers' Share Group meetings. However, you can tour some fine examples at DeaMor's web site, [www.deamor.com](http://www.deamor.com).

## NW REGION CONFERENCE

Last years region conference in Spokane was titled "The Journey" in reference to Lewis and Clark's historic journey. September 2006 is the bicentennial of Lewis and Clark's return to St Louis. October 2006, "The Journey" continues in Portland as we take "CSI to the MAX" to explore what's new in Portland and the wealth of fun and diversions that Portland has to offer.

The long awaited conference agenda is near completion with a host of activities that is certain to have something for everyone. Over a year in it's planning the line up of continuing education offers a wide variety of opportunities also certain to have something for everyone. The best conference ever is about to become available on line. Don't miss it. Space is limited and will fill up fast. Sponsorship opportunities are already limited and going fast. "CSI to the MAX" don't miss the train, call Jane, and make your reservation today!

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[jane@portlandcsi.org](mailto:jane@portlandcsi.org)

## PPSF ANNOUNCEMENT

**32nd Portland Products AND SERVICES Fair**  
Presented to you by CSI, IIDA, AIA, AGC and IFMA  
strong team of construction related associations.

**Date:** Tuesday, May 2, 2006

**Time:** 1:00 pm - 7:00 pm

**Location:** The Oregon Convention Center  
777 NE Martin Luther King Jr. Blvd.  
Portland, OR 97212 Exhibit Hall 'A'.

**Questions about general vendor and booth information:**

Cherie McNabb ~ Cell: 360-281-1918 ~

Message: 360-573-7834

Fax: 360-571-8834 ~ Email: [cheriemcnabb@comcast.net](mailto:cheriemcnabb@comcast.net)

**Questions about general info:**

Jane Phifer ~ Phone: 503-805-2500

Email: [jane@portlandcsi.org](mailto:jane@portlandcsi.org)

Education seminars available through out the day

Credits available

**Keynote Speaker ~ 7:00pm**

**John Patkau – Patkau Architects - Vancouver BC**

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## NORTHWEST REGION CHAPTER MEETINGS

### Cook Inlet, Anchorage, AK (Third Tuesday)

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### Puget Sound, Seattle, WA (Second Tuesday)

Andrew Estep, CSI.....206-382-3393

### Mt. Rainier, Tacoma, WA (First Thursday)

Jerry Litwin, CSI,CCCA.....253-584-5207

### Spokane, WA (Second Thursday)

Eric Rieckers, CSI..... (509) 535-0301

### Portland, OR (Second Tuesday)

Jane Phifer, CSI.....503-805-2500

### Capital, Salem, OR (Third Thursday)

LaVone Clausen, CSI.....503-371-2070

### Willamette Valley, Eugene, OR (Last Thursday)

Rodd Hansen, CSI-I.....541-687-9600

### Idaho, Boise, ID (First Tuesday)

Jon Farren, PE, CSI, CDT.....208-429-1307

# March 2006

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

- 3/6 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*
- 3/7 CSI Board Meeting, *Noon, AIA Office*
- 3/9 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 3/14 **CSI Chapter Meeting**, *Best practices to avoid & resolve, changes, delay & claims*
- 3/14 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*
- 3/23 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 3/28 - 4/1 CSI 50th Anniversary CSI Show and Convention, *Las Vegas*

# April 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						

- 4/3 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*
- 4/4 CSI Board Meeting, *Noon, AIA Office*
- 4/11 **CSI Chapter Meeting**,
- 4/13 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 4/17 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*
- 4/27 CSI Specifiers Share Group Meeting, *Noon, ZGF*



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 P.O. Box 5116  
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NOTE CHAPTER MEETING IS ON FIRST TUESDAY!!





Knowledge for Creating and Sustaining the Built Environment

Volume 45, Issue # 11

April 2006

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Web site: www.csinet.org

BUILDING ENVELOPE CONSULTANTS?
Tuesday, April 11, 2006

We don't need no stinkin' consultant waltzing in here telling us how to design/build/maintain our projects! Or do we? After some thought (not to mention a lawsuit or two), our considered opinion, is more likely, "Yes we do!" A panel presentation featuring renowned envelope experts The Façade Group, Morrison Hershfield and RDH Group will discuss such topics as best practices, coordination, legislation, rainscreens, waterproofing, perimeter seals, back pans, field and laboratory testing, renewability/replacement, maintenance, and the Portland Building Envelope Council, all at the next CSI meeting.

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What "Hot Buttons" do the consultants have with regard to design, construction, sequencing, testing, and documentation of the building envelope? What's unique about envelope construction in the Northwest? What materials are used today and why? What are your building envelope "Hot Buttons"?

Join us for a lively panel discussion...

Thanks to our sponsors Hoffman Construction & Custom Window Co.

The Princeton Building Ballroom
614 SW 11th Avenue
Social at 5:30 PM
Dinner and Program 6:30 pm

Cost: \$30.00 per person with pre-paid reservations by March 9, 2006

Sponsor a table for 8 for just \$230

Assure your spot for this special event!

Late reservations - and walk-ins (as available): \$40.00 per person

Email: jane@portlandcsi.org for questions or to sign up

Assure your spot for this special event!

# PRESIDENT'S MESSAGE

By *Dennet Latham, CSI, CCS*



## Another Opportunity to Voice your Opinion

Currently available on the [www.csinet.org](http://www.csinet.org) website is the initial draft of the proposed update to the SectionFormat document. The CSI SectionFormat/PageFormat Update Task Team (SPUTT) was given the task to coordinate these documents with the recent revisions to MasterFormat and The Project Resource Manual (PRM). SPUTT is asking for review comments to be returned by May 1st in preparation of the next draft issue. There is no indication when the task team intends to publish a final document. I encourage you to review the new document and add your comments to the Forums/SectionFormat and PageFormat Update Discussion on the [www.csinet.org](http://www.csinet.org) website, SPUTT's official location for presenting your comments.

The first part of the draft document is the Outline of SectionFormat Article Titles, which just lists article and paragraph titles in the proposed order. The second part is the Detailed Description of SectionFormat; this gives a narrative for each article and paragraph to help one understand the content that should be placed in each location. A nice touch of this document is that information that should be coordinated with Division 1 is in italic text.

There are some interesting revisions proposed to SectionFormat in this first draft; revisions that should initiate considerable discussion. The most obvious change is the addition of Part 4 - Utilization. According to the narrative, Part 4 is to include information about the "utilization of the facility once it is occupied". Article titles include Commissioning, Operation and Use, Provisioning (restocking and replenishment of consumables), Maintenance, Ongoing Verifications, Evaluations and Assessment, Repairs, and Facility Information Management. An example of what would be included under Facility Information Management is "requirements for procedures to modify the Record Documents, including when maintenance, verifications, repairs, or replacements occur". Wouldn't it be nice for a project that is an addition to an existing building or for a renovation project of an existing building that there were accurate drawings and specifications available for the existing conditions, including all previous renovations or additions?

The new Part 4 seems to have some good applications that, per the intent of SPUTT, will be coordinated with the new facilities management module of the PRM. On the other hand, Part 4 may have to be edited very closely as to the responsibility for the work results specified in these paragraphs. As much of the tasks described in Part 4 are executed by the Owner or the Facilities Manager, it will be necessary to clearly define scope of work and how this relates to the construction project contract. On many construction projects, except for those that require commissioning services or additional evaluation through warranty period, the Part 4 - TILIZATION title may likely be followed by "NOT

USED". Should facility management information be in construction specifications? Let CSI know your thoughts through the Forum discussions.

Reviewing the proposal for Parts 1 through 3, other interesting changes include the relocation of many Part 1 articles in the current SectionFormat document to Part 2 and Part 3. For example, Product Options, Substitution Limitations, Delivery, Storage and Handling, Extra Stock, Maintenance Tools, and Source Qualifications (manufacturer and fabricator qualifications) have been moved to Part 2. This makes some sense given these articles are closely related to procedures related to products.

In addition, Part 1 titles including Installer Qualifications, Site Conditions, Field Samples and Mockups, have been moved to Part 3. Again, these revisions also seem appropriate as they better reflect the sequence of events from purchase, fabrication to installation; for example, installer qualifications are related to execution procedures. With the move of these tradition administrative articles to Part 2 and 3, Part 1 becomes limited to Work Results descriptions, Price and Payment Procedures, Administrative Requirements (only specific requirements for the subject section that expand on Division 1 requirements), and Submittal Requirements. In the Submittal Requirements article, Deferred Design Submittals is a new paragraph. Having a specific location for design documents that will not be available at time of plan review should better communicate the timing of these documents to code officials. The rearrangement of the Part 1 titles is interesting in concept, however, it is relatively easy to rearrange article and paragraph titles in a list; revising an entire office master specification will be challenging and the learning curve for the new format will be extensive.

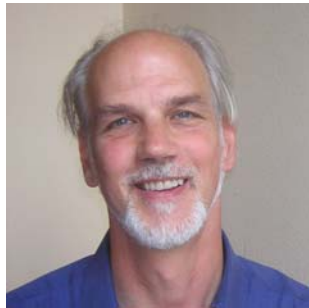
Although the cover letter for the draft document indicates this is an update to both SectionFormat and PageFormat, there is no apparent information explaining proposed revisions to PageFormat. Perhaps this is coming in the next draft. Hopefully, the page format of the Detailed Description of SectionFormat document is not an indication of the new direction for page format. Shaded Part Titles, line numbering in left margin, one line footers and headers, and italic text; there should be more options.

There are some good ideas in these revisions. Addition of Part 4, realigning article titles more in the proper sequence of how work results are achieved, and adding new paragraphs titles to coordinate with PRM are steps in the right direction for helping make construction documents address more project delivery types and the full life cycle of a construction project. Make your own evaluation and participate in the coming discussions on *SectionFormat* and *PageFormat* to help make them stronger consensus documents.

Along with reading the forums on the revisions to section and page format, also look at the continuing discussions on MasterFormat 2004; people are starting to use the new format, trying to understand where to locate information; the discussions are more directed to specific topics and may be more useful to you in your own reformatting. Interestingly, several of the comments end with a statement like "I am happy to help in the revision process to make these better documents". One has to wonder...Where have you been?

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

By: Fred Herbold, CSI, CCS



## Rain Screen Wall Systems - Effective Solutions to External Moisture Penetration for the Pacific Northwest

Recently the Specifiers' Share Group has enjoyed several presentations about keeping our moist Pacific Northwest climate out of our

buildings. Here's the list:

"Single Ply Roof Systems" by Andy Cleveland, CSI, Johns Manville Roofing.

"Weather Barriers for Walls" by Dennis Lunder, CSI, Henry Company.

"Metal Wall and Roof Panels" by Mike Simmons, Fabral & CopperCraft.

"Waterproofing and Roofing Coatings" by Neil Shearer and Gary Felling, CSI, Andek.

"Key Elements in Designing Wall Systems, Meeting Expectations for Pacific Northwest Buildings" by Dave Young, CSI, RDH Building Sciences Inc.

The list shows our concern with preventing moisture infiltration into our buildings. You'll note that the presentation at the next Chapter Meeting is on the same subject – from three experts in the science of keeping buildings dry.

The following is a summary of some of Dave Young's presentation. It is also a primer for the April Chapter Meeting. I hope it will help you better understand this month's program.

### Water and Climate and Forces

Three conditions are required to move water through the building envelope:

- A source of water
- An opening or path for the water to follow
- A force to drive the water through the opening.

Remember that water is always either liquid or gas (water vapor) in our climate. So think about water in both states when considering the Forces that move water from one place to another:

- Gravity
- Kinetic (the momentum of wind-driven rain)
- Air pressure gradient (wind or HVAC system)
- Vapor pressure (things like to be equal on both sides)
- Capillary action and surface tension.

Building walls should be designed to close the paths of water that is driven by all of these forces. The climate, location and configuration of the building affect which of these forces will be significant. A high rise is more vulnerable to air pressure (wind) and wind-driven rain than a house. But a house on the coast may be even more vulnerable to these forces.

### Approaches to Water Penetration Control

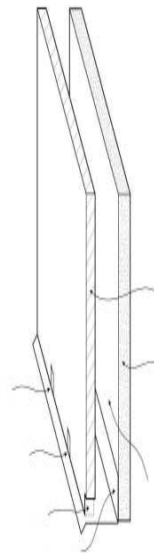
**Mass Wall:** The historic solid masonry or concrete wall that begins to dry before moisture can move to the interior face.

Mass walls are thick and expensive. Most modern construction employs framed walls. The following are framed wall systems.

**Barrier or Face Sealed:** Stops water at the exterior face, one line of defense, if the face cracks or holes, the wall fails.

**Concealed Barrier:** Two lines of defense, the face and a moisture barrier over the sheathing. Moisture that penetrates to the concealed barrier is trapped there until it can dry out.

**Drained Cavity:** The drained cavity wall has aspects of the rain screen approach and addresses some of the forces that cause rain penetration, but should not properly be called a rain screen wall. Two layers are separated by a cavity. An internal layer of free draining material installed in the cavity (the concealed barrier approach) will work in effectively the same way. The outer layer receives the kinetic force of the rain, while the cavity or drainage layer prevents the capillary action of water from reaching the materials of the inner wall. Water penetrating the outer wall must be collected and directed out of the cavity with flashing and weep holes. In this type of wall, either the outer or the inner layer may act as the air barrier to provide resistance to air leakage.



(Continued pg 6)



## PERKY'S NOTES

By: Perky Kilbourn, CSI



Lee and I have been traveling again. This time to Kissimmee, Florida to stay with friends for a day before we went to Fort Lauderdale and took a cruise which stopped at St. Martens, Dominican Republic and Nassau, Bahamas. After 8 days at sea, we returned to Kissimmee for four more days of relaxing with our friends before we flew home to snow!

Our elder daughter called on Thursday, March 9 to advise there was four inches of snow at our house. Laurie said she only had 1 1/4 inches at her house in Lake Oswego.

When we got to Seattle on Friday night, March 10, 2006, Lee decided to drive home rather than spend the night at a motel where we had reservations. Lee was concerned about ice on the roads if we drove back Saturday morning.

*Mouse threatens to halt development* was the title of a news article in March 2006 issue of **Pollution Engineering**. Paraphrasing and quoting from the article.

. . . The meadow jumping mouse was identified as a subspecies by Preble in 1954.

. . . This mouse has been able to halt plans to develop sections of Colorado and Wyoming. . . A study commissioned by Interior Secretary Gale Norton and conducted by biologist Rob Raney found that the jumping mouse's genetic makeup was the same as the common Bear Lodge meadow jumping mouse. Raney's findings have been called into question. . . . Tim King, a USGC conservation geneticist from West Virginia, concluded that the mouse was a unique creature with a distinct evolutionary lineage. . . . King's genetic samples were collected from over 140 meadow jumping mice across the Northern Great Plains, and included mice in the Bear Lode Mountains and the Black Hills. . . . The mouse has been listed on the federal endangered species list since 1998 and its protected habitat covers nearly 31,000 acres from Colorado Springs, Colorado to Laramie, Wyoming.

*Can't Log the Forest for the Trees?* Is a report in the March-April 2006 issue of **American Scientist**. There has been a long-running dispute between loggers and "tree hugging" environmentalists in the United States. The middle ground which is being reached in the United States is "selective logging". I understand a little bit of how it is done because my Mother's cousin, Ward Richardson, had a Tree Farm in Polk County. Richardson obtained the property because framing the property was not profitable after it had been logged. Richardson experimented with this logged over land and nurtured the best

trees with selected cutting. When Oregon State University received the Richardson Family Tree Farm, they were able to sell it for a significant amount of money. This money was used to build Richardson Hall for the OSU Department of Forestry, fund several Faculty Chairs and provide numerous students with scholarships. What works successfully for the forest composed of Douglas Fir Trees may not work for the Amazon rain forest. Quoting Greg Asner (from Carnegie Institution) in the article "The scientific and forestry knowledge regarding how to do low-impact logging in the field now exists. The barriers now are thus political and economic."

Low impact logging is needed to reduce the logging's effect on tropical rain forest's carbon absorbing capacity. The tropical rain forest's carbon absorbing capacity is related to global carbon dioxide levels. The global carbon dioxide levels seem to be related to the "Green House Effect" which is also known as "Global Warming."

*States take on environmental issues* was another topic of the March, 2006 issue of **Pollution Engineering**. The article reports that a number of politically liberal states are working around the federal government to make environmental policy because not enough is being done by the federal government. Some states with Republican governors, such as California and Connecticut, are making their own rules. Gina McCarthy, the commissioner of Connecticut's Department of Environmental Protection is quoted in the article as saying

"If we can't get the federal government to act, then we have to take action in any way we can."

Michele St. Martin, a spokeswoman for the White House Council on Environmental Quality is quoted as saying that the Bush administration welcomes the efforts of the states "as long as they do not put Americans out of jobs or move emissions from one state to another or one country to another."

In general, the industry has supported the concept of obtaining energy generated from renewable sources. Power plant emission restrictions are opposed to by the electric generating industry. The electric generating industry believes restriction on power plant emission will result in more job losses in manufacturing to other countries, where energy costs are lower.

*Discovering Knowledge Through Literature Mining* by Ramon Alonso-Allende and Christian Blaschke appeared in the February 2006 **American Biotechnology Laboratory**. Text mining refers generally to the process of extracting relevant and non-trivial patterns or knowledge from unstructured text documents. Key information is obtained without reading the entire text. The relevant biological concepts and entities can be linked to biological data. The user can change from superficial overview to specific information gathering. A new way to access the literature is through visualization of biomedical conceptual maps. Could the same mining techniques be used by Contractors and Specifiers?



# MARCH MEETING RECAP

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By: Perky Kilbourn, CSI

*Best Practices to avoid and resolve changes, delays, claims* was the title of a very thought provoking presentation by Steve Pinnell of Pinnell/Busch. Everyone was provided with a copy of his slides as well as his resume which I found very impressive. He started with a B.S. in Civil Engineering from U of Arizona in 1964 followed by a M.S.C.E. in Construction Management from Stanford U in 1965. He formed Pinnell Engineering, now Pinnell/Busch, Inc., in 1975 and specializes in project management. In 1998 McGraw-Hill published his book HOW TO GET PAID For Construction Changes.

His presentation was divided into three parts, changes, delays and claims:

## 1. Changes

The Cause of Changes in Owner's view were discussed.

Scope Change was greatest at 32%. This could be reduced with a better scope definition during programming and pre-design. In addition the cost and scope management should be done during design. Have the user groups/operations and maintenance be involved in design reviews.

Differing Site Condition followed at 19% and could be solved by better as-built of new projects and a risk analysis of site investigation i.e. the cost versus benefits.

Design Errors at 18% can be reduced by selecting a well qualified designer with project management skills. Don't over-emphasize design fees – if you pay more you get more. Evaluate performance and use for future selection. Use constructability reviews and value engineering. Give the designer enough time to do a good design which covers all bases and this reduces the percentage of changes. Fast Track Projects do work but need good scheduling because if have a lot of changes then it costs money. The cost of changes is great because of what the contractor has to do to provide what the owner has decided the owner wants.

Owner Delays are not as significant but have a far reaching effect because "If you want it bad, you'll get it bad."

## 2. Claims

If claims have not been prevented, about 88% can be settled with negotiation. Mediation is the next choice for settling claims followed by Arbitration. The claim goes before a dispute resolution board, which is a neutral body that reviews the problem. This is really a tool to illuminate the dispute. If Arbitration fails then Litigation follows. With Litigation the attorney is now in control and the contractor and owner loose control. One way to help reduce the number of claims is by partnering and 93% of 20 respondents felt it did help.. With weekly and daily meetings between the various partners the project goes more smoothly and there are fewer or no claims.

## 3. Delays

Owners feel that Scope Change is major reason for delay followed by Differing Site Conditions and Design Errors and Poor Scheduling. Most owners are satisfied with their scheduling specification especially if it requires monthly updates. Owners are neutral about requiring narrative reports, electronic schedules and impact analysis if a delay. About half the contractors always request subcontractor input, prepare monthly updates and submit narrative reports. Very few prepare time impact analysis and the conclusion was that 75% of the Contractors felt happy with their scheduling procedures and results. When owners evaluated the contractor scheduling practice most of them felt contractors did submit monthly updates, and review their schedule updates and if delayed, submitted a recovery schedule so can finish on time. Owner evaluation and subcontract opinion of contractors' scheduling skills were almost evenly divided between good, fair and poor.

A schedule review and acceptance process helps reduce claims. A joint meeting with Contractor's Scheduler and Superintendent helps by answering any questions. review critical path in sequence and check work quantities, productions rates and duration. In addition need to check for critical crew chases (crane, equipment fleet,) etc. When done, brainstorm for improvements and work together and explain why something is rejected. Require re-submittal by a specific date and offer to discuss the reason for rejection to ensure you get what you need.

Schedule management is best down with good record keeping which includes start and finish dates, delays and the reason why, crew sizes etc. Enforce the contract and require corrective action. Meet and discuss delays, impact or claims. Promptly respond to questions and notices. Also promptly and fairly resolve issues such as time extension and change order requests. In summary the owner should continue to partner with the contractor.

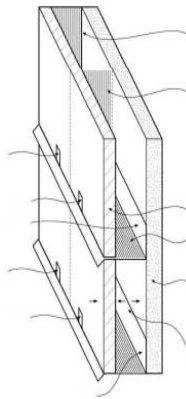
Good record keeping helps keep track of construction costs and contractor knows for sure not over budget. Similarly Pinnell showed a Comparison Bar Chart with a delay early in the construction process and its effect on the construction which followed. The graphic representation showed that all the following construction was delayed. This kind of a report clarifies relationships and can be followed by a time impact analysis which points up float time. Pinnell then showed a Pivot Table with the relationship between planned and as built clearly marked.

(Continued pg 6)

## WHAT DO YOU SAY (Cont)

**Open Rain Screen:** In this wall type the outer or “screen” layer is intentionally vented to the exterior, while the air barrier is located at the inner layer or backup wall. Since the inner surface is the most airtight, it bears the brunt of wind pressure loads. This relieves the pressure gradient across the outer wall, which would otherwise tend to draw moisture inward. However, since the air pressure difference now exists at the backup wall, and since some water should still be expected to pass through the vented outer layer, the inner wall requires a second line of defense against moisture. This should be a layer of water-shedding material, such as sheathing, building paper, or a waterproof membrane, and a flashing and drain at the base of the wall.

**Pressure Equalized Rain Screen:** The Pressure-equalized rain screen wall employs additional features in the design of the cavity to improve performance over a simple rain screen wall design. Theoretically, the outer cladding of a pressure-equalized rain screen wall is not subject to any wind load, as wind forces are transferred to the air barrier at the backup wall. This would allow design of the cladding to be as light as possible. In reality, wind forces are dynamic and variable, and pressures applied to the wall are constantly changing.



Recommended approaches for Pacific Northwest framed walls, windows and curtain walls are the last three. All have an open cavity. The cavity should be wide enough to prevent capillary action across the furring.

### Further Reading

Descriptions and illustrations of the cavity walls came from Canada Mortgage and Housing Corporation’s “The Rain Screen Wall System”. Google them with “CMHC rain screen” and click this or other downloadable PDFs.

For air barrier and weather barrier information go to the Air Barrier Association of America site at [www.airbarrier.org](http://www.airbarrier.org). the site includes downloadable ABAA-master specifications.

Not all our Northwest Region CSI members who represent weather resistive barriers list themselves in the “Directory” under 07 25 00 – Weather Barriers. Perhaps next edition will have a more complete listing. But you can be sure to get information from the SSG presenters listed above.

**See you at the Chapter Meeting.**

## MEETING RECAP (Cont)

Owner defenses and counterclaims include Lack of Entitlement

- Concurrent Delay
- Failure to Re-Sequence
- Faulty Scheduling
- Erroneous Analysis
- Liquidated or Consequential Damages
- Defective Work – out of spec work product.

Ideal is a good design followed by a contractor with a schedule. The contractor should have cost control of construction. When there are fewer changes in the work for the contractor and a tighter control then everyone benefits.

A summary slide showed the traditional project phases

- I. Exultation
- II Disenchantment
- III Confusion
- IV Burn Out
- V Search for the Guilty
- VI Punishment of the Innocent
- VII Distinction for the Uninvolved
- VIII Long-Term Employment for Attorneys and Experts

## NW REGION CONFERENCE

Last years region conference in Spokane was titled “The Journey” in reference to Lewis and Clark’s historic journey. September 2006 is the bicentennial of Lewis and Clark’s return to St Louis. October 2006, “The Journey” continues in Portland as we take “CSI to the MAX” to explore what’s new in Portland and the wealth of fun and diversions that Portland has to offer.

The long awaited conference agenda is near completion with a host of activities that is certain to have something for everyone. Over a year in it’s planning the line up of continuing education offers a wide variety of opportunities also certain to have something for everyone. The best conference ever is about to become available on line. Don’t miss it. Space is limited and will fill up fast. Sponsorship opportunities are already limited and going fast. “CSI to the MAX” don’t miss the train, call Jane, and make your reservation today!

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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)

Andrew Estep, CSI.....206-382-3393

### Mt. Rainier, Tacoma, WA (First Thursday)

Jerry Litwin, CSI,CCCA.....253-584-5207

### Spokane, WA (Second Thursday)

Eric Rieckers, CSI..... (509) 535-0301

### Portland, OR (Second Tuesday)

Jane Phifer, CSI.....503-805-2500

### Capital, Salem, OR (Third Thursday)

LaVone Clausen, CSI.....503-371-2070

### Willamette Valley, Eugene, OR (Last Thursday)

Rodd Hansen, CSI-I.....541-687-9600

### Idaho, Boise, ID (First Tuesday)

Jon Farren, PE, CSI, CDT.....208-429-1307

# April 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						

- 4/3 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*
- 4/4 CSI Board Meeting, *Noon, AIA Office*
- 4/11 **CSI Chapter Meeting**, *Building Envelope Consultants?*
- 4/13 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 4/18 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*
- 4/27 CSI Specifiers Share Group Meeting, *Noon, ZGF*

# May 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			

- 5/1 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*
- 5/2 **CSI Portland Products & Services Fair**
- 5/9 CSI Board Meeting, *Noon, AIA Office*
- 5/11 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 5/16 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*
- 5/25 CSI Specifiers Share Group Meeting, *Noon, ZGF*



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Knowledge for Creating and Sustaining the Built Environment

Volume 45, Issue # 11

May 2006

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32nd ANNUAL Portland Products and Services Fair

Keynote Speaker: John Patkau, Hon. FAIA
'Ongoing Investigations'

Tuesday May 2, 2006 - Oregon Convention Center - 7:15 PM - 9:15 PM
Admission \$20.00 - Credits 2 CEU's



'Ongoing Investigations': A review of continuing projects in the office of Patkau Architects and the process used for ongoing investigations in the design process in their studio environment.

The firm of Patkau Architects, founded in 1978 and based in Vancouver, British Columbia, has achieved international renown for work that draws on the principles of modern architecture and is simultaneously inspired by the traditions and often spectacular landscape of the Pacific Northwest. The office is known for straightforward, multifaceted expression of materials and detail as well as a focus on the sculpture that is inherent in architecture.

'In a world dominated by global culture it is necessary to foster a local culture to define yourself as a people. A regional place defined exclusively by global culture is, in a sense, a colonial place without a culture of its own. Although we are inevitably shaped by global culture, we need to make a local culture, and we need to reinforce the particular in

the context of an overwhelming generality. The principle mechanism in the creation of the particular is differentiation.'

'When presented with a commission, our intuitive starting point is to seek those things that are particular to the project and to center our architectural response around them. We have come to describe this search as a search for 'found potential'-those aspects of site, climate, or local culture that facilitate the development of an architectural order evocative of circumstance.' Excerpts from John Pakau's 1995 Dinkelloo Memorial Lecture; Univ. of Michigan

Patkau Architects has won design competitions for the Canadian Clay and Glass Gallery in Waterloo, Ontario in 1986, the Nursing and Biomedical Sciences Facility for the University of Texas, Houston in 1996, College Housing for the University of Pennsylvania 1998, and the Bibliothèque nationale du Québec, a new central library for the province of Québec in 2000.

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Please Pre-register by April 26th to avoid onsite registration at the show

# PRESIDENT'S MESSAGE

By *Dennet Latham, CSI, CCS*



## Face-to-Face or Face the “Wall”

We are all enamored by the ease and availability of construction product information on the World Wide Web. On a daily basis we research product information on various websites where product data sheets, guide specifications, material safety data sheets, and local manufacturer contacts can be reviewed or downloaded. The quality of the available information on these websites has improved geometrically in recent years, so

much that firms are starting to question the value of in-house vendor catalog libraries. Although many manufacturers have done a masterful and creative job of portraying their company's information, there is still something missing.

Project specific design criteria and project site conditions are difficult to convey through emails and by requesting more detailed information on manufacturer's websites. To adequately complete a construction product investigation, there is nothing better than meeting face-to-face with manufacturer representatives, or with installing contractors, to review in-process drawings and specifications with the objective to correctly specify and detail materials for the project at hand. All the websites in the world, even some of the newer ones that offer “design engines”, which respond to rudimentary project criteria entered by the design professional, cannot adequately provide detailed, project context sensitive information. There is still a need for personal interaction with those construction product professionals that can respond to specific questions and project conditions.

So, the in-house, one-on-one meetings with manufacturer's representative still provide the most effective technique for communicating project material criteria and obtaining feedback about proposed installation techniques for these materials. However, on a given project, that might have hundreds of different installed materials and products, it is almost impossible to be able to sit one-on-one with manufacturer representatives for each individual product; design professionals would never get their design documents “out the door”.

The Portland Chapter CSI has an effective solution for the design professional to come in contact with a hundred or more manufacturer and installer representatives without spending inordinate number of in-office hours; The 32nd Annual Portland Products and Services Fair (PPSF).

On the afternoon of May 2<sup>nd</sup> at the Oregon Convention Center, Exhibit Hall A, there will be 100 or more construction product vendors available for the benefit of the design community to meet “face-to-face” for the intent of learning about existing and new construction products that are available in our Northwest Region. The vendors look forward to this opportunity to present new products and demonstrate installation techniques in a way that is not possible during daily in-house meetings. They have samples with

which one can experience hands-on material knowledge to better understand the “salient” features of these materials in a way not possible be reviewing catalogs or websites. Designers also have the opportunity to meet with the persons that they will normally contact with project specific questions regarding materials and products intended for the project specifications. Understanding the physical characteristics of building materials such as weight, hardness, flexibility, weatherability, size and thickness, puncture resistance, abrasion resistance, color and texture along with many other features, will help tremendously in making decisions about appropriate use and installation methods for products.

The Products and Services Fair is definitely a time-saving event. In one afternoon and at one location, designers can easily visit with 100 product representatives (if you schedule time effectively!). How many scheduled office meetings would it take to visit with this many vendors? CSI encourages office principals to allow their employees to visit the PPSF on Tuesday afternoon to take advantage the abundance of construction product information. The Fair is a convenient and fun way to do product research and receive continuing education credits at the same time.

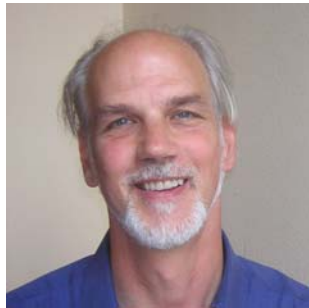
In addition to the vendor booths, several of the manufacturers will offer mini seminars during the afternoon, on the show floor. These mini seminars will provide additional detailed product information and at the same time offer AIA learning units. Outside the exhibition hall there will be three separate continuing education programs. In the afternoon, a session about teamwork on LEED<sup>®</sup> projects and a session on The Natural Step program for businesses. In the evening, after the products and services fair closes the keynote speaker, Mr. John Patkau, Hon. FAIA, of Vancouver, BC will speak about his firm's design process and continuing work. These separate sessions will also provide AIA continuing education credits. The three separate seminars are available at a reduced price of \$30, if one attends all three.

In the President's message in the March issue of *The Predictor*, I addressed the emerging “integrated” project delivery method where the traditional design-bid-build method is quickly evolving into an integrated delivery method where contractor, subcontractor, designer, and owner work more closely together during early design stages to facilitate the design-build effort so that projects can be delivered earlier with less cost and improved product quality. In this integrated design and construction method, face-to-face communication, early in design and throughout the project construction is crucial to a successful outcome. Participation in the May 2<sup>nd</sup> Portland Products and Services Fair provides a wonderful opportunity to practice this face-to-face interaction so you won't find yourself and your staff “against the wall” with unanswered questions late in the design process.

Hope to see you and a friend or two at the 32<sup>nd</sup> Annual Portland Products and Services Fair on May 2<sup>nd</sup>, 1:00 pm to 9:00 pm!

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

By: Fred Herbold, CSI, CCS



## Why Specifiers Attend the Portland Products and Services Fair

The Specifiers' Share Group has enjoyed many presentations over the years from product representatives, from professional consultants, and from installer-contractors.

Even so our appetite for knowledge and experience is not satiated. We look forward to Portland Chapter's annual Products and Services Fair as an easy, convenient way to touch-base with the current status of our local construction industry.

In addition, we encourage, if not insist, that certain of our fellow design colleges attend the Fair and Seminars for the same reason. Specifically:

### Available Products

At the Fair we meet local and regional representatives for products and manufacturer's that are currently available in our market. Returning to the office the next day, we specifiers revise the list of "Available Manufacturers and Products" in our specification master. We may also be taking back the current product binder or CD. Or we may be awaiting one to arrive after ordering it from the product representative.

### Proprietary Specifications

It's never pleasant to be told that the one and only product you've specified is not available. Unfortunately, manufacturers do not notify us specifiers when they go out of business, change their name, are purchased by another company or discontinue a product.

At the Fair we can verify that our favorite products are still available and working well. Also check on up-dates and improvements. It just takes just a few moments of conversation with the knowledgeable product representatives.

We also discover what's been happening at the corporate level: who's missing this year and why; who purchased whom or what.

### New Products and Manufacturers

At the Fair you can expect to see products introduced that you've not seen before or were not aware. Manufacturers use this opportunity to introduce new solutions to design and construction issues. Also, you can expect to see new options from manufacturers who are just entering our market.

### Refreshing Experiences

At the Fair, after a few hours of enlightenment, I walk over to an array of light snacks. It helps to keep me going and it's a good place to compare notes with other design professionals. Of course, there's a no-host bar open as well.

### Sustaining the Built Environment

"Knowledge for Creating and Sustaining the Built Environment" is CSI's mission. At the Fair this year two seminars will focus on incorporating US Green Building Council's LEED® rating system and The Natural Step's "system conditions" into building projects. The information at these seminars will help specifiers and designer to "green-up" their specs and expand their definition of sustainable design.

Finally, we are looking forward to hearing the evening's keynote speaker, architect John Patkau. His work and design approach is sympathetic to the environment, human culture and regional issues.

**See you and your fellow designers at the Fair.**



*A booth at a recent products & services fair*



# PERKY'S NOTES

By: Perky Kilbourn, CSI



**Note #1 Historic perspective** – at one time The Institute was telling local chapters of CSI that they could not have Product Exhibits because they might detract from exhibits at the Institute Conventions. I am glad it was decided local Product Exhibits don't compete with exhibits at the National Conventions. Times have changed since Mary Alice Hutchins FCSI, FAIA became the 97<sup>th</sup> member of CSI in 1949 after an architectural group chief in the supervising architect's office at the U. S. Treasury Department, Edwin Bateman Morris, envisioned an organization where specifications writers and others interested in construction communication could develop uniformity of communication within the industry ....

Quoted from page 19 of One Woman's Unique Architectural Journey: The Life and Times of Mary Alice Hutchins, self published by J. P. Kilbourn and Friends in CSI and AIA, 1999.

I will have copies available at the Products & Services Fair.

**Note #2 thoughts from a manufacturer of building products.**

Jody Moore supplied the following information.

Jody told me there are four reasons that come immediately to mind when asked "Why do we have the Portland Products & Services Fair?"

**First** – Contacts for more business for all types of members of CSI.

**Second** – New Products to add to a reps list or to help an architect with a construction or design problem.

**Third** – New Job in the field of construction if unemployed.

**Fourth** – Continuing Education - the speaker is usually very good.

**Note #3 thoughts from Ken Searl** – a retired Specification Consultant and past president of Portland Chapter CSI.

**First** – To find out about new products.

**Second** – To obtain more information on old products if haven't specified that product in a long while.

**Third** - To learn about a product which have never specified Ken would also be able to talk to other people at thenPortland Products & Services Fair who have specified the product.

**Fourth** – this has nothing to do with Products Fairs but Ken said to tell every one he was still alive and kicking.

**Note #4 thoughts from Margie Largent** – a retired Architect and two time past president of Portland Chapter CSI .

**First** – To find out information on new products.

**Second** – A Products & Services Fair is a much better way to present products and services than by means of Product Representatives because Product Representatives take up a lot of time.

**Third** – An efficient way of learning about all products, both old and new.

**Note #5 thoughts from manufacturer's representatives** – Several different manufacturer's representatives commented that the Products & Services Fair was an excellent place where they could present their products and make contact with a lot of Architects/ Specifications Writers without spending their time traveling.

**Note #6 thoughts from a Plan Center** – Ellen Onstad said her main interest in The Products & Services Fair was to make contacts and explain how the Plan Center can help people in the Construction Industry.

**Note #7 thoughts from an owner (microbiologist)** – I go to the Products & Services Fair to learn information about Products which might help me as a Consultant Microbiologist. For example, I have been asked whether products (carpet tiles or flooring) which have been imbedded with antimicrobial agents really resist microbes.

**Note #8 thoughts from Joe Bolkovatz, recently retired from JEDunn Construction**

**First** - likes to see the vendor's new products which will probably be incorporated into construction in future years.

**Second** - Products & Services Fair are a convenient place to network with the architects and manufacturers representatives.

**Third** - A very effective way to talk to a lot of people in a short amount of time.

**Fourth** – Products & Services Fair are enjoyable because they professionally done.



Denise Carpenter with T & A Supply talking with a visitor



## “Leading LEED®: The Team Works When There’s Teamwork”

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### **Logan Cravens, AIA, LEED AP**

#### *Director of Green Building Resources*

Logan has over 18 years experience in architecture and education with a special emphasis in environmental design issues. Logan received his Masters in Architecture at The University of Texas at Austin and his Bachelor of Arts at Austin College. In addition to project management on Federal Courts projects, Logan advises SERA in the implementation of sustainable policies and procedures. Since 1992, Logan has been a recognized leader in Portland's sustainable design community. He is a past chair of the AIA/Portland Chapter Committee on the Environment. A founding board member and past president of the Cascadia Region Green Building Council, Logan is also a LEED Accredited Professional and SERA's representative to the U.S. Green Building Council. He is a contributor to the Oregon Natural Step Network Construction Industries Task Force and numerous construction trade publications. Since 1997, Logan has taught a course on the theory and practice sustainable architecture in the Department of Architecture at PSU.

### **Ralph DiNola, CSI, Assoc. AIA, LEED AP**

#### *Principal*

With an emphasis on individualized service, Ralph assists project teams with efforts such as conceptual design for green building strategies, project feasibility studies, green product selection and plan and specification analysis. As Senior Design Consultant, Ralph generates holistic building solutions by providing a “big picture” perspective and forging synergies among various disciplines.

Ralph serves as project manager for numerous registered projects and managed the LEED documentation for the first LEED Gold certified historic renovation in the U.S: the Ecotrust Natural Capital Center. Ralph was also the head consultant on Clackamas High School, which became the first LEED certified school in Pacific Northwest. He is currently working on Gateway Station, a project seeking platinum certification. In addition, Ralph works internationally for clients in Canada and Shanghai. A facilitator of green design and a LEED Faculty Member, Ralph brings his leadership skills to green building workshops, eco-charrettes and training sessions on building green. His workshops are tailored to address the specific needs of owners, design firms, contractors, government agencies, manufacturers and facility managers. Ralph has also been an invited speaker at national conferences such as GreenBuild, Greenprints, NeoCon and EnviroDesign. Ralph has over 15 years of experience as a designer and historic preservation specialist. While working as an historic preservation specialist with the National Park Service (NPS), Ralph helped preserve and restore more than 50 architecturally significant structures. His current work combines Ralph's knowledge of green building practices and his historic preservation skills, as he is assisting in the adaptive reuse of several historic buildings.

## “THE NATURAL STEP: A NEW PARADIGM FOR BUSINESS”

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### **John Echlin, AIA , LEED AP**

John Echlin is a Design Principal with SERA Architects in Portland, Oregon. He is a graduate of Rhode Island School of Design and UCLA, and has over 25 years experience in urban planning and architecture with a special interest in environmentally responsive design.

A frequent speaker on sustainable design, John is a LEED (Leadership in Energy and Environmental Design) Accredited Professional and has several LEED registered projects either recently completed or in design. He is a former member of the City of Portland and Multnomah County joint Sustainable Development Commission and also serves on the Board of the Oregon Natural Step Network (TNS). With TNS he is engaged with a Construction Industry Peer Learning Group that is developing guidelines for fully-sustainable buildings.

### **Duke Castle**

Duke Castle is a former marketing executive from Hewlett Packard and one of the original founders of the Oregon Natural Step Network.

Mr. Castle has traveled to Sweden to study how Swedish organizations have successfully applied the Natural Step principles. He has received training on the Natural Step from founder Karl Henrik Robert, has conducted numerous Natural Step trainings and briefings and was asked to train Oregon state leaders on sustainability and The Natural Step as part of Oregon Governor Kitzhaber's sustainability executive order.

Mr. Castle's recent efforts in the sustainability field have been to guide and assist organizations in using the Natural Step framework as a strategic tool in their business planning. He has worked with a variety of organizations including the University of California, Santa Barbara; Oregon Department of Environmental Quality; Shore-Bank Pacific; Tualatin Valley Water District; and architectural leaders such as Mithun, SERA and Yost Grube Hall in the development of their sustainability plans. Mr. Castle has a BSEE from Cornell University and an MBA from Stanford.

## THOUGHTS ON PPSF

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*By: Bob Abbott, CSI*

*What I was I still am - What I am I wasn't*

Three months ago I was a Designer, I had been an Interior Designer for 30 years. I transmuted into a Sales Rep! Now I find myself on the CSI committee to bring the Portland Products and Services Fair to fruition. There are very interesting contrasts in viewing this Fair from two different perspectives. As a Designer I actually never gave it much thought. The day before the event a couple friendly, familiar Reps delivered a balloon reminding the design firm that tomorrow was the day. I would often go to the Fair with hopes of finding some new materials and information. Typically I felt a bit awkward avoiding booths which I perceived were of no connection to my profession. I always stopped to see reps that I knew and left with some brochures and a few freebies. Now I am the Rep who is frantically trying to assemble an interesting booth that will "draw" people in & illuminate their consciousness with my incredible product. What magical give-away will keep my product in the mind of every potential client? I have volunteered my time trying to collect mailing lists from relevant professional organizations that will allow us to send information about the Fair, many are cooperative, some are not. I worry that there will be too few vendors, I worry that the Design community will not come to the Fair. Whoa – it's a night and day kind of contrast.

### HELP THE CSI PROGRAM COMMITTEE

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The CSI program committee is looking for a tour location for our September 2006 meeting. The recent tours have been at the Vancouver Conference Center, Pioneer Courthouse and the Avenue Lofts. In June we'll be touring the newly remodeled Bridgeport Brewery. If you are involved in a project that would be near completion and safe for 80 – 100 people to tour through please contact Kaye Kloster at [kkloster@fordgraphics.com](mailto:kkloster@fordgraphics.com). For the best turnout we prefer projects in the Portland metropolitan area.

### LETTER OF THANKS

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*By: Marvin Samson Alvarez, Student*

I wanted to thank you all for allowing me and my fellow students to share an evening with you and your organization. It was a pleasure to meet many of your member and learn from the many experiences they had to share and from the seminar itself.

Your provide a valuable piece to our learning and I hope you continue showing your generosity to future students.

Once again. thank you.

Best wishes to all of you and your organizations.

*By: AIA Office*

The local chapters of the Construction Specifications Institute and the American Institute of Architects have a long history of working together to support our design and construction professions while improving the built environment in which we live, work and play. For over 30 years CSI Portland's Products and Services Fair has spotlighted new products and ideas to help our local design, interiors and construction professions stay ahead of the curve in an ever-changing industry. AIA/Portland is proud to support this year's Products and Services Fair on Tuesday, May 2<sup>nd</sup> at the Oregon Convention Center, and we are encouraging all of our members and related professionals to attend the many events planned throughout the day. In addition to the many vendor exhibits, there will be numerous opportunities for architects to earn Continuing Education Units, including workshops LEED and the Natural Step sustainability framework. Internationally renowned Vancouver, BC architect John Patkau, Hon. FAIA will be the evening's keynote speaker. The AIA asks you to mark your calendar and support your local Chapters of CSI, AIA, IIDA, IFMA and AGC!

### IT'S YOUR TURN NOW

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*By: Cornelia Gibson, CSI*

It is always exciting for the volunteers working on the Portland Products and Services Fair to see this event come together smoothly. It has been enjoyable to work together with people who give of their time and energy to support our local chapter of CSI. With all the effort, care and energy, which have gone into the planning of this year's Products Fair, you can expect a great educational, simulating and enjoyable event.

Look for a fascinating Keynote speaker in Mr. Patkau, earn CEU's by attending relevant seminars, and discover product updates by attending free vendor seminars and vendor booths.

The volunteers who put the Products Fair together have done their job to provide a palette of activities for you; – now it is your turn to show support for the Fair.

Come, attend our seminars, have some hors d'oeuvres and meet old friends.

Then go around and enjoy thought provoking new ideas and design solutions you'll find in the many vendor booths'. While you're at it, have the vendors sign your prize winning bingo card and become eligible for a weekend get-away to Salishan or Skamania Lodge.

The odds are in your favor ... it is your turn...you do not want to miss this year's Portland Products and Services Fair.

See you there!

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### Cook Inlet, Anchorage, AK (Third Tuesday)

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### Puget Sound, Seattle, WA (Second Tuesday)

Andrew Estep, CSI.....206-382-3393

### Mt. Rainier, Tacoma, WA (First Thursday)

Jerry Litwin, CSI,CCCA.....253-584-5207

### Spokane, WA (Second Thursday)

Eric Rieckers, CSI..... (509) 535-0301

### Portland, OR (Second Tuesday)

Jane Phifer, CSI.....503-805-2500

### Capital, Salem, OR (Third Thursday)

LaVone Clausen, CSI.....503-371-2070

### Willamette Valley, Eugene, OR (Last Thursday)

Rodd Hansen, CSI-I.....541-687-9600

### Idaho, Boise, ID (First Tuesday)

Jon Farren, PE, CSI, CDT.....208-429-1307



**32<sup>nd</sup> ANNUAL PORTLAND PRODUCTS AND SERVICES FAIR REGISTRATION FORM**

**Tuesday, May 2<sup>nd</sup> 2006 Open 1 PM - 7 PM**

Oregon Convention Center - Exhibit Hall A - 777 Martin Luther King Jr. Blvd - Portland, OR 97232

**To register, please indicate seminar choice(s) below by circling the amount:**

Name: \_\_\_\_\_ Firm: \_\_\_\_\_

Please circle: Architect, Engineer, Interior Designer, Building Owner, Facilities Planner, Contractor, Student, Other \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone : \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Afternoon Seminars:**

“Leading LEED®: The team works when there’s teamwork”.... 1:30 PM - 3:00 PM.....\$10.00

“The Natural Step: Good for Business, Good for Earth” .....4:00 PM - 5:30 PM.....\$10.00

**Evening Keynote Address:**

“Ongoing Investigations” by Keynote Speaker John Patkau: .....7:15 PM - 9:15PM... \$20.00

**SPECIAL OFFER: Purchase tickets for all three events:..... \$30.00**

**Exhibits .....FREE**

**Seminars: Request Schedule, Topic & Times at Registration Desk.....FREE**

We accept cash, check or Visa/MC#: \_\_\_\_\_

Exp. Date \_\_\_\_/\_\_\_\_ Last 3 digits on signature line: \_\_\_\_\_

Cardholder Name: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

Signature: \_\_\_\_\_ Total amount : \_\_\_\_\_

**To register for lecture & seminars, return form and payment by April 26<sup>th</sup> to:**

**Portland Products and Services Fair  
 PO Box 5116, Salem, OR 97304, Phone: 503-805-2500 - Fax: 1- 503-587-0337  
 E-mail: jane@portlandcsi.org.  
 (Note: After April 26<sup>th</sup> seminar registration at door only)**





Knowledge for Creating  
and Sustaining  
the Built Environment



Volume 45, Issue # 12

June 2006

**Portland Chapter - The Construction Specifications Institute**

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Web site: [www.csinet.org](http://www.csinet.org)



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**June Awards Gala at bridgeport brewpub + bakery  
Tuesday, June 13<sup>th</sup>!**

Following a 14-month, extensive renovation, BridgePort BrewPub is back with an updated look and a new moniker: bridgeport brewpub + bakery.

The original BridgePort BrewPub established itself in 1986 in the industrial NW neighborhood, long before it became known as the Pearl District. The renovation was the result of the brewery looking to the future by finding ways to broaden the pub's appeal to the changing demographic of the neighborhood, while continuing to please loyal patrons from the past two decades. Because of the vision of the leaders who transformed the local neighborhood, BridgePort BrewPub was compelled to take on the renovation and revamp their name.

While much has changed in the century-old building, the comfortable feel of the brewpub has stayed the same. Rustic brick, timber and iron elements are still the theme, and concrete floors remain in the main pub. Tables are lined in rows, reflecting the commitment to remaining a true public house by fostering community among guests. The open architectural design reveals the character of the building while improving the overall layout, providing better access, bringing in natural light, and preserving and elevating the public house aspect of the brewpub.

The architectural firm in charge of the renovation was Holst Architecture of Portland, with Jeff Stuhr and Kevin Valk serving as the lead architects. Australian architect Martyn Hook also consulted on the project. Knopf Brothers Construction acted as the general contractor, as it did on the original pub 20 years ago.

Join us on **Tuesday June 13<sup>th</sup> at 5:30pm at the bridgeport brewpub + bakery** for CSI's Awards Gala and a presentation given by Jeff Stuhr and Kevin Valk of Holst Architecture about the remodel of the bridgeport brewpub + bakery.

Karl Ockert, bridgeport brewpub + bakery's Brew Master will be on hand to talk about how their beer is made and offer tasting during the social hour.

**bridgeport brewpub + bakery  
1313 NW Marshall St. Portland, OR  
Social and beer tasting 5:30**

**Cost: \$35.00 per person with pre-paid reservations by June 9, 2006**

Sponsor a table for 8 for just \$270

Assure your spot for this special event!

Late reservations – and walk-ins (as available): \$45.00 per person

**Assure your spot for this special event! See enclosed Event Reservation Form**

*Thanks to the following sponsors: Rodda Paint, Prodema,, Deamor & NW Industries*

# PRESIDENT'S MESSAGE

By Dennet Latham, CSI, CCS



## Stepping Aside and Moving Forward

The president's job is made easy by having an eager group of volunteers to participate on the Board of Directors and Chapter committees. This year it is easy to say your chapter was led by a great group of volunteers and I would like to take this last column to review some of their activities and thank them for their efforts.

The Chapter's year actually begins on July 1 so the first event of the 2005-2006 year is the annual Golf Tournament in August. This event typically sells out and is a great summer activity to just relax, enjoy a beautiful NW golf venue, and have fun with other CSI members and guests. If you're real lucky you can come away with bragging rights for low score and one of the many valuable door prizes, as well as sore and tired shoulders and feet. Erica Bitterman-Ryon continues to do a great job of organizing this event each year and she has another outing planned for this coming August. Spots are filling up quickly again so don't wait to sign up a team.

Later in August, many Portland CSI members attended the NW Region Conference in Spokane. Seeing what a great event the Spokane Chapter sponsored, helped our Chapter understand what it takes to organize a large conference and what kind of activities to offer. We came back with great ideas for helping to plan the next NW Region Conference here in Portland on October 5 to 8, 2006 at the Doubletree Hotel. There will be many activities, seminars that will allow one to obtain a full year's worth of education credits, as well as social events enjoyable for all attendees. I encourage you to register for a great time next fall. Russ Pitkin has done a wonderful job this year heading up the NW Region Planning Committee; Russ and his committee have an exciting program planned based around a region transportation theme.

During the year, the Chapter reinitiated the Education Committee, led by Steve Gray. The committee planned and executed a number of seminars on MasterFormat given by Rick Heiserman and Fred Herbold. There was much interest in conversion to MasterFormat 2004 and the new Project Resource Manual this year. So much interest that the Chapter was able to sell almost all the 25 copies of both The Project Resource Manual and MasterFormat 2004 that had been obtained last year. There are still a few copies of MasterFormat at the discount price of \$75. After they are gone, copies may be obtained from the Institute website. The education committee also helped plan the seminars at the Products and Services Fair in May. Attendees were able to hear about a teamwork approach to LEED™ projects and learn about the Natural Step program for business. The education committee is already looking forward to next year by planning with the Certification Committee new seminars that will cover basic specifications and more techniques for converting office master specifications to MasterFormat 2004. Thanks to Steve and his committee for re-kindling the Chapter's education program.

Each month through the year our Chapter meetings allowed member social interaction and wonderful programs starting with the tour of Vancouver Hilton Hotel and Conference Center, and including an update of the latest LEED rating systems and an interesting panel discussion by area exterior building envelop consultants. Thanks go to Kaye Kloster for heading up the Programs Committee and keeping the ideas coming for new and interesting meeting topics. The Committee has a great list of ideas already on the table for next year. If you might be interested in helping to bring these ideas to life and adding other new meeting ideas, join the Programs Committee by attending the next committee meeting on May 29<sup>th</sup>. Contact Kaye for details.

For the first time this year *The Predicator* was issued by email rather than mail. So far this decision seems to be well received and, this change is saving the chapter considerably on printing and mailing costs. Thanks to Corey Morris, who joined the Board of Directors mid-year as a Professional Director, for volunteering to be the Chapter web master to help keep the Chapter website, [www.portlandcsi.org](http://www.portlandcsi.org), up-to-date. Be sure to visit the Chapter website for current information on monthly meetings and information about the up-coming Region Conference. One of our future goals for the website is to possibly introduce online registration for seminar and monthly meetings.

"Best local products fair on the West Coast". That's one comment heard at the Portland Products and Services Fair May 2<sup>nd</sup>. More than 370 attendees spent the afternoon meeting with vendors face-to-face and attending vendor seminars and three other seminars culminating in the evening with an interesting talk by John Patkau, Hon. FAIA. Many thanks and appreciation go to Cherie McNabb, Cornelia Gibson, and their committee for the long hours organizing and executing the hundreds of planning details required to hold an event of this size.

With the help of friendly hot chili dinners on cold Fall Sunday afternoons, the Certification Committee, led by Christine Steel and Amy Hjelte, assisted the certification instructors to prepare for a new series of certification classes based on the new Project Resource Manual and MasterFormat 2004. Again, a dozen people attended the classes from January to March in preparation for the CDT exam at the end of March. Even if you are not intending to take the certification exams, these classes are an easy way to obtain basic understanding of construction project execution, construction contracts, document formats, and document coordination between drawings and specifications; principles and procedures CSI members and other in the construction industry deal with on a daily basis. If you have not attended these classes in the past, consider taking them next year.

Portland Chapter CSI is friendly, active, and growing. Last count from the Membership Committee has the Chapter at 405 members. Lee Kilbourn and Pat Murphy co-chair the Membership Committee that holds monthly meetings with the intent of monitoring renewals for existing members and promoting membership to potential new members. They also plan new member orientations. But, attracting new members is an activity all members can pursue. In daily business contacts, it is easy to convey to others

(continued on page 5)

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

By: Fred Herbold, CSI, CCS



## Up-Dated CSI Section-Format™ SPUTT Releases First Draft

Portland Chapter CSI Specifiers' Share Group reviewed and discussed the first draft of updated *SectionFormat* last month. It was released by CSI's

SectionFormat™/PageFormat™ Update Task Team (SPUTT) in early March.

Specifiers should pay close attention to the work of SPUTT and participate by responding to its call for feedback. The deadline for response was May 1. SPUTT may be trying to ramrod more change down the throats of our unsuspecting industry.

### Call for Response

The task team has prepared this initial draft to spur industry discussion. Their stated objective is to produce a more responsive *SectionFormat* for the future.

SPUTT states the our feedback is essential to their process and invites users (specification writers) and interested parties to participate. You should do the following:

Copy and review the draft update at [www.csinet.org/sputt](http://www.csinet.org/sputt).

Post your feedback at the online discussion forum at the same address [www.csinet.org/sputt](http://www.csinet.org/sputt).

Send email to the SPUTT liaison, Aaron Titus, at [atitus@csinet.org](mailto:atitus@csinet.org).

### Summary of Changes

Many articles are moved from PART 1 to other Parts; for example: "Delivery, Storage and Handling" is placed at the end of PART 2.

Many general requirement articles from PART 1 seem to have mystically vanished. Notably: System Description/Design Requirements/Performance Requirements, Quality Assurance, Sequencing/scheduling, Warranty.

PART 1 "Submittal Requirements" is expanded and differentiates between action submittals, informational submittals, and closeout submittals.

PART 3 is expanded by including Field Samples and Mock-ups, Waste Management, and Systems Integration.

*SectionFormat* is expanded by adding PART 4 – UTILIZATION. This additional Part would be the location for Commissioning and Maintenance as well as other new articles.

### Summary of SSG Comments

If it's not broken, don't fix it. SPUTT has not explained why the updated *SectionFormat* has been modified so dramatically. The potential time and cost to revise all specification sections is of great concern.

Expansion of possible articles under Submittal Requirements is good. We especially like making a clear distinction between the three categories of submittals, because requirements and processing for each is different.

We'd like Quality Assurance and its various topics, including Mockups and Qualifications, back in PART 1.

We agree with the historic development of PART 1 and disagree with most of its proposed dismantling in this update. PART 1 should amplify general requirements specified in Division 01.

Where do we specify warranty requirements?

If "work results" are the new emphasis, why are performance requirements no longer of general concern in PART 1, but related to products only in PART 2?

Site Conditions at the beginning of PART 2 is logical.

Extra Materials (not "stock") in PART 2 is a good idea. Of course its current location in PART 1 may be more obvious to bidders. A similar caution about placing Maintenance in PART 4; will the bidders find it?

Construction Waste Management located in PART 3 seems out of place. We think the Portland construction community a leader in construction waste management, and we find that Section 01 74 19 suffices. Specific issues can be discussed under Packaging and Cleaning.

PART 4 will typically not be used for construction documents. We suspect it may simply be ignored.

We are concerned about moving Commissioning requirements into PART 4. Topics in this Part seem to be essentially post-occupancy. However, some owners (notably the State of Washington) require commissioning prior to issuing occupancy permit. Commissioning would be better in PART 3.

### Please join in the discussion.

Let SPUTT know that we need more time for consideration and comment. And let them know what **you** think.



# PERKY'S NOTES

By: *Perky Kilbourn, CSI*



Notes on Education Sessions at 50th Annual CSI Show & Convention March 2006.

**Commercial Contracts: What you Don't Know Will Hurt You.** William A. Munyan, CSI, CDT, AIA with FreemanWhite, Inc. started his presentation with a definition of a Contract. This was followed by clarifying who could make a contract with whom. He then discussed the basis of

payment which included Procurement Documents, (AIA A701 Instructions to Bidders) and Shop Drawings (AIA A201). The next topic was "Payments" including the topic of "Retainage" which was followed by an "Order of Precedence" discussion. Under A201 there is no "Order of Precedence" and specifications don't rule over the drawings. All documents have equal weight and an "Order of Precedence" dictates how an Architect is to interpret his documents. The final discussion was about Substitutions and RFI's. RFI's are requests for information to clarify the Contract Documents not to initiate changes in the Work. In the Question and Answer period Munyan stressed that e-mails are evidence in disputes.

**LEED Case Study: Follow up on NASA 4600 by Mike Leonard, CSI, CDT, AIA, LEED AP, Thomas, Miller & Partners.** Last year he discussed the design of a building which NASA wanted to be LEED Silver Certified. This year he discussed the sustainable design features which were implemented and some of the documentation for LEED Silver Certification.

**EnergyWise – Evaluating the Thermal Performance and Energy Costs of Roof Assemblies, Jared Blum, Polyisocyanurate Insulation Manufacturers Association,** Blum identified himself as a reformed lawyer from Washington DC who is working for the national trade association "PIMA" (Polyisocyanurate Insulation Manufacturers Association). He spoke rapidly and covered a lot of information on EnergyWise and some aspects of roof design.

**Effective Strategies for LEED Documentation by Christopher Dixon RA, CSI, CCS, LEED AP, Mithun Architects,**

LEED documentation is a process which includes a request for the desired level of certification and justification for the number of points to qualify for that level of certification. A preliminary review is performed which takes about 30 days. The applicant has 30 days to respond to the preliminary review. The final review occurs in 30 days which can be followed by an appeal process of 60 days. Dixon made some points about the appeal process "provide no more documentation than what is requested" (just answer the question). Use the LEED calculations and letter templates for every point attempting. These are provided in the Welcome Packet. Use innovation credits already awarded before attempting to create something new. Submit for more than enough points than are needed for the desired

Certification level. Design is what is needed to make the difference in getting points. Manufacturers can get information on recycled content of their product or how it is manufactured which may help the certification process.

**What Architects, Owners, Contractors and Operators need to know about LEED Water Efficiency Credits, Winston Huff, CPD, LEED AP, SSR Engineers –** Quoting part of the information from his first slide "Sustainable building methods mimic the way the Earth recycles and cleans water and air in the biosphere", which process is called building biospherics. Paraphrasing his second slide - the reason for sustainable building is to reduce the harmful effects of a building on the exterior environment and a buildings' occupants. Saving money is the motivation of building owners for constructing a sustainable building. Examples of things which can be done include

**First** - the installation of Water Free Urinals as well as Water Free Toilets which require a composting system. The housekeeping staff will need to be trained to maintain the composting system.

**Second** – According to his slide, in the Low Flow Showers, the maximum flow of 1.5 gallons flow per minute were required by the Clean Water Act of 1991.

**Third** - Many sustainable buildings have bike racks to encourage the occupants to bike to work rather than drive. There is a LEED credit for providing a bike rack at the building. The bike riders may want to shower after riding their bikes to work and low flow shower heads can be installed in the showers at work to help in obtaining the reduced water LEED point.

**Fourth** - Dual Flush Water Closets exist which allow the amount of water used to vary depending on what is to be flushed.

**Fifth** – A Green Roof reduces the amount of impervious surface and the amount of storm water that leaves the building site. The use of a green roof along with open grass areas on a site can increase a site's pervious rate and, as a result, reduce the effect of the project on the existing storm water system. (direct quote from one of the author's slides).

**Sixth** – Irrigation which uses captured rain or recycled site water will reduce potable water consumption and qualify for Water Efficiency credits. The use of indigenous or drought resistant plants that do not require watering also helps. Do not install permanent landscape irrigation systems but rather collect waste water from air conditioning systems, building process or lavatories and reuse it for landscape irrigation.

**Seventh** – Solar water heaters with heat exchangers are also useful.

**The Restrictive Specification – The Legal Minefield by Roger Sabo, Esq. Schottenstein, Zox and Dunn.** He discussed cases where sole source or restricted source specifications were used and some of the problems involved in these cases. One of the main problems of sole source or restricted source specifications is that the substitution needs to be submitted before the bids are opened. The case (example) which he discussed in detail was one in which the General Contractors (who won the bid for the contract to construct the building) wanted to accept a substitution which had not been submitted until after the bids were open. Every General

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## PRESIDENT'S MESSAGE

(Continued from pg 2)

the benefits of being a CSI member and fun activities that go along with membership. If each one of us would invite a guest to one CSI event during the year, membership can increase just on the merits of CSI programs alone.

It has been a wonderful year of education and camaraderie being your Chapter President. I want to especially thank Jane Phifer, the Chapter Executive Director, Doug Allen, your incoming Chapter President, and all the Board members for their ongoing support during the year, and the friendly reminders of things a President shouldn't forget. I have enjoyed the entire year. I would like to invite you all to the June Chapter meeting at the Bridgeport Brewery where we will continue our education program, by taking a tour of the newly remodeled facility, and recognize the dedication of your Chapter leaders. During dinner, our Awards Committee, led by Denise Carpenter and I will recognize many of the people that make the many Portland CSI activities so enjoyable, and introduce you to next year's Board of Directors. Hope to see you there.

## PERKY'S NOTES

(Continued from pg 4)

Contractor who submitted a bid did not know about the substitution so the General Contractor who won the contract could not use it. The Manufacturers Representative (with the product he wanted substituted) started suing everybody because his product was not going to be used. He was unsuccessful because the General Contractor had missed the bid date with his request for substitution. If "or equal" or "approved equal" had been used in this specification than the burden of proof that the product was equal (could have been supplied by the Manufacturer's Representative) and the product might have been used in the construction.

**Volatile Organic Compounds (VOC's): Impact on Specifying High Performance Coatings throughout the United States, by Roger Tegtmeier, CSI, CCPR, and Dwayne Meyer, Carboline Company.** Tegtmeier started by defining Volatile Organic Compounds (VOC's) as the organic compounds that evaporate from a coating film during the drying or curing process. VOC's may be Hazardous Air Pollutants. They presented some interesting information showing that of the total VOC's calculated for the United States 58% are of biogenic origin (come from nature related emission) and 42% are anthropogenic or man made. This 42% is composed of 34.7% due to vehicles, 7.14% due to other solvent emissions, and only 0.16% of total emissions due to the evaporation from coating film during the drying or curing process. Apparently (I have not yet tried to do it) you can find this information at the U. S. Environmental Protection Agency Technology Transfer Network:

## PERKY'S NOTES

(Continued from pg 4)

Air Toxics Website; Original List of Hazardous Air Pollutants: [www.epa.gov/cgi-bin/epaprintonly.cgi](http://www.epa.gov/cgi-bin/epaprintonly.cgi).

His concluding suggestion was to specify only coatings which will meet the most stringent regulation and this will make the specification of VOC compliant in 49 states. One may need to modify the specification only when the project site is in California.

### **Solar Energy as a Renewable Energy Source by William Kenny, CSI, The Garland Company and Vjay Israni, 3rd Rock Systems and Technologies, Inc.**

Kenny started by identifying himself as a roofing contractor who wanted to install the roof of the future. Companies that manufacture solar panels don't know anything about roofs and he wanted to install a roof with a 30 year life expectancy. Kenny felt that he would like to install a roof that could use the ultraviolet light from the sun rather than deteriorate as a result of the ultraviolet light. Israni felt that photovoltaic (PV) cells were the answer. PV cells are solar collectors and can be either PV panels or crystalline amorphous PV on a thin film. The sun emits UV rays (photons) which cause electrons to move in the silicone in the PV cell. This movement of an electron generates DC electricity (direct current energy) which is then converted to AC electricity (alternating current electricity) for your home. Sometimes more energy is produced than needed so the AC electricity can go into the power company's grid (if the power company is willing to accept it) and the home owner gets credit for electricity the home system has produced.

### **Legal Roundtable: Issues Affecting CSI Members, by Gerald I. Katz, Esq. Katz & Stone L.L.P.**

Katz started by discussing three cases involved in Jobsite Safety Responsibility. He concluded by strongly suggesting that the Architect/Specifications Writer (A/SW) should be covered by the prime contractor's indemnity obligations to the owner and, if possible, that the A/SW be named as an additional insured. AIA A201 does it correctly. In addition the A/SW should not be given the right to stop the work. If the A/SW accepts any duty to review a contractor's safety procedure, make sure that the contract clearly states that such review does not make the A/SW responsible for monitoring and ensuring the contractor's compliance with such safety requirements. If the A/SW learns of or observes unsafe practices on a project the unsafe practice should be reported to the person responsible for safety and a documentation of the reporting of this practice should be made. In addition be sure that the contract of the A/SW expressly states who bears responsibility for the safety practices on the jobsite. The General Contractor should not delegate safety practices to the A/SW.

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# PORTLAND PRODUCTS & SERVICES FAIR



## PERKY'S NOTES

(Cont from pg 5)

Katz then reported a case of Liability to Contractors and Subcontractors and said the A/SW should know which state's law applies to this project of the A/SW and whether that law applies to "economic loss rule" to claims against design professionals. Katz next discussed a second area of law with a case about standard of care and suggested, if sued for negligence, to take note – and take advantage – of any failure by the plaintiff to present expert testimony of the applicable standard of care, which may not be the highest standard of care. Be prepared to present expert testimony on the standard of care which is more persuasive than any presented by the plaintiff. The fourth area of law was the role of Construction Managers and he discussed two cases involving Construction Managers. Katz told his audience to be aware of whether applicable state laws treat construction managers as professionals or more like contractors. A person should see if a license is needed to do the work. The final case involved arbitration and a court which decided that construction supervision services could be considered a contract for the sale or purchase of consumer goods as defined by the state statute.

Next year, the CSI Convention and Exhibit will be in Baltimore Maryland in June. I hope these brief recaps give you a sense of the interesting topics that are discussed in the education sessions.



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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)

Andrew Estep, CSI.....206-382-3393

### Mt. Rainier, Tacoma, WA (First Thursday)

Jerry Litwin, CSI,CCCA.....253-584-5207

### Spokane, WA (Second Thursday)

Eric Rieckers, CSI..... (509) 535-0301

### Portland, OR (Second Tuesday)

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### Capital, Salem, OR (Third Thursday)

LaVone Clausen, CSI.....503-371-2070

### Willamette Valley, Eugene, OR (Last Thursday)

Rodd Hansen, CSI-I.....541-687-9600

### Idaho, Boise, ID (First Tuesday)

Jon Farren, PE, CSI, CDT.....208-429-1307



## June 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	

6/5 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*  
 6/6 CSI Board Meeting, *Noon, AIA Office*  
 6/8 CSI Specifiers Share Group Meeting, *Noon, ZGF*  
 6/13 **CSI Chapter Meeting, bridgeport +brewery tour & awards gala**  
 6/13 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*  
 6/22 CSI Specifiers Share Group Meeting, *Noon, ZGF*  
 6/29 CSI Board Planning Meeting

## July 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					

7/3 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*  
 7/13 CSI Specifiers Share Group Meeting, *Noon, ZGF*  
 7/17 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*  
 7/27 CSI Specifiers Share Group Meeting, *Noon, ZGF*

Second opportunity to take your Exam!

REGIONAL EXAMS: Did you miss the March 25, 2006 Nation Wide Exam registration final deadline? If so, here's your chance to take the CDT, CCS, CCCA, or CCPR exam!

**Northwest Region Exam** - The early registration deadline for the October 5, 2006 Northwest Region Exam in Portland, OR is July 7, 2006! The final registration date is August 6, 2006.



Kimberly Walker receives the Mary Alice Hutchins Scholarship AIA Award at the Portland Chapter CSI Products Fair.