



Knowledge for Creating
and Sustaining
the Built Environment

The Predicator

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Portland, Oregon Chapter — The Construction Specifications Institute

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A Joint Meeting with American Society of Professional Estimators

Construction Forecast

John W. Mitchell

A Tale of Two Industries

Tuesday -- January 20, 2004



The construction sector has had two faces early in the 21st century. *Housing* has boomed even in states like Oregon & Washington that experienced three years of declining employment, while much of *Non-Residential* construction has languished. The national recession ended over two years ago, but only in the last six months have labor markets shown signs of strength. The cycle and recovery have been marked by aggressive use of monetary and fiscal policy. There have been fears of deflation that took interest rates to 40-year lows and waves of refinancing. This corner of the world has been severely impacted by the tech bust, energy price volatility, and unstable tax revenue. Our esteemed speaker will share his insights about the prospects and risks facing the nation, Oregon and the metro area in 2004.

John Mitchell, one of the Northwest's foremost economists, will be featured at our second annual meeting of CSI and ASPE to address the economic issues that concern our industry and our region. As a Principal, M & H Economic Consultants, and Economist for the Western Region of US Bancorp, John Mitchell has over two decades of direct experience in our market, including service on the Oregon Council of Economic Advisors; the Western Blue Chip Forecast Panel; and the Governor's Tax Review Technical Advisory Committee.

American Society of Professional Estimators serves construction estimators by providing education, fellowship, and opportunity for professional development. CSI is very pleased to join the Columbia Pacific Chapter of ASPE for this important presentation.

Join us on the third Tuesday, and hear what John Mitchell sees in our future!

LOCATION: The Princeton Building Ballroom—614 SW 11th Ave.

TIME: 5:30 PM Meet Your Colleagues in CSI and ASPE

7:00 Dinner and Presentation

COST: \$30.00 per person with Reservations by January 15, 2004

Late reservations—and walk-ins as available: \$40 per person

Sponsor a Table for 8 for just \$ 230.00

Register today! See the enclosed Event Reservation for easy registration.

HANSET STAINLESS

Special Thank You for generously sponsoring this event!

PRESIDENT'S MESSAGE

By Cherie McNabb, CSI, CDT



Happy New Year!!!!

I hope that everyone had a safe and happy holiday season. Let's welcome the year of 2004 with open arms. I know it has new and exciting opportunities in store

for all of us. So begin the year with an open mind and be ready to pick up the pace and just go for It.

Things to remember

Date: Dec 9, 2003

Time: 5:30 – 9:00

Place: Princeton Building 3rd floor Ballroom what a terrific final program for the year 2003 CSI had. Congratulations go out to the programs committee for bringing us so many great learning experiences.



When the topic Viva Vancouver was brought up many of us Vancouverites were in full support of the topic. We debated on having it in Vancouver but were concerned about the unknown



factors – weather, traffic and members wanting to cross the bridge at rush hour traffic. We were hoping for good attendance and were able to achieve this partly due to the great topic Viva Vancouver, great supportive members and by keeping the meeting at the Princeton ballroom for the gathering. We were pleasantly surprised with

the 140 people in attendance.

We were asked by several people “Why did CSI have a



Vancouver based meeting in Portland?” Good question... We thought about this long and hard. As an example let's take the television news in the Portland Metro area. Do we hear much about Vancouver on TV? Rarely! So this is a start to the information highway. We knew that if we took the

meeting into Vancouver we might not get many takers to cross the bridge and get caught in traffic. This way we brought the topic to the membership instead of the membership going to the topic.



Thank you to all of the Architects that displayed and presented throughout the evening. Architects Barrentine Bates Lee, Fletcher Farr Ayotte, Opsis Architecture, Otak Architecture, William Wilson Architects, and Zimmer Gunsul Frasca Partnership.

All of the guests mingled around had questions about projects



and we had an informative presentation by Gerald Baugh, city of Vancouver business development. He talked about many of the projects that have happened in Vancouver along with future projects

Instead of the typical sit down meal we chose food stations that were spread throughout the room. Guests were able to eat and mingle around looking at the different projects that were displayed and visit with each other along the way.

We also had a toy drive for the Toy and Joy makers of Portland, Oregon. This was our first year to try this and it was the beginning of a great relationship. Michael Hawes helped us get this organized. We were joined by firefighters at 7:00 pm to collect the toys. We hope to provide more toys next year. Rats, I had to struggle through getting my photo taken with these firefighters.

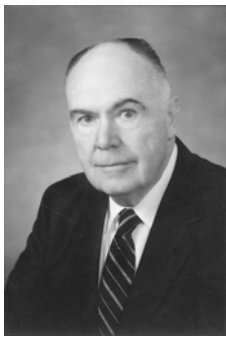


If you are at all interested in helping put together gift boxes to be given out at Christmas you may contact Dean Johnson at the Toy and Joy Makers 5860 NE Going Street, Portland, OR. Phone number: 503-823-0922.

Thanks, once again to all that donated gifts and money to the Toy and Joy Makers. Once again you all make me very proud to be a part of the CSI Portland Chapter.

BS BY KS - Basic Specs

By Ken Searl, FCSI, CCS



I was having a discussion with Ivan McCormick CSI CCS SCIP the other day and he suggested that I mention in this column about the code changes regarding the use of wire glass. I thought real fast and told him it would be nice if he sent me this information and he did. Information as follows: On October 1, 2003 the State of Oregon no longer allowed the use of wire glass in areas subject to human impact in our schools. This will be expanded to include

commercial buildings effective October 1, 2004. Alternatives to wire glass are laminated glass in non-rated openings and fire rated glass tested for human impact for rated openings. A glass fabricator said Owners will have a "Sticker Shock" when they see how much it will cost to replace wire glass. The law applies only to new construction and replacement of wire glass in existing schools (commercial buildings next year). But, does it have implications to other building types?

We live in a litigiously prone society. It seems the Architect would be prudent to evaluate the use of wire glass regardless of building type. There is a year separating school and commercial buildings effective dates. A person injured by wire glass in a commercial or other building during this time is just as injured as if it occurred in a school. We are on notice that wire glass is dangerous. It takes no stretch of imagination to see the Architect having to defend wire glass. One thing I can say is I never liked the look of wire glass and I am glad to see it discontinued in buildings mentioned above.

I was reading an article in our local newspaper about a woman driver who was the victim of a carjacking. She was stopped at an intersection when a man jumped into the passenger seat of her car and ordered her to drive. She did not see a weapon, but the man had a wild look in his eyes. She jumped out of the car and the man sped away with several witnesses in pursuit. He was caught and sent to jail. What I would like to know is why she was driving with unlocked doors? Evidently her car was an older model because the late model cars have automatic door locks. If any of you readers have a car that does not automatically lock doors, then why not lock them manually to avoid such incidents?

I am a member of the AAA Oregon and in their magazine for November/December 2003 there is an article entitled, "A Place in the Clouds" which is about Timberline Lodge on the slopes of Mount Hood. In 1978 Portland CSI Chapter hosted a Region Meeting at this lodge. My wife and I went to this Conference and stayed at Timberline Lodge. We really enjoyed our stay and highly recommend this Lodge. There is a two page article in the above mentioned magazine and if you would like a copy, contact me and I will send it to you.

Also If you would like a copy of the CSI Northwest Region Substitution Request form with Instructions and a Master Section 01630 Product Substitutions Procedures, let me know and I will send them to you.

PERKY'S NOTES

By Perky Kilbourn, CSI

Haven't heard anything from my attorney on continuing to use "Perky's Notes" as the title to this column. The opinion I have been given by non-lawyers is that I can use the possessive form of my nick name even though it has been trade marked for a cereal. I could not manufacture my own cereal and use my nick name. Since I have no intention of manufacturing a cereal with my nick name attached to it, I am all right.

I would now like to discuss something I know a little bit about.

Microorganisms

An article "Ultraviolet light fights germs in buildings, researchers say" by Rob Stein of LA Times, Washington Post Service appeared in the Friday, November 28, 2003 issue of The Oregonian.

Quoting the first paragraph of the article
"Ultraviolet lamps can kill bacteria, mold, fungi and other germs in the ventilation system of big office buildings, preventing

headaches, coughs, congestion and other symptoms of "sick building syndrome" among workers, researchers reported Thursday."

Apparently, a scientific study was performed and has been accepted for publication in ". . . issue of The Lancet, a British medical journal."

The Lancet is a respected peer review journal and so will do some detective work and report back what is discovered after reading the article.

The concept makes sense because

- 1) Ultraviolet lights have been used in the laboratory for sterilization for many years.
- 2) We have an Ultraviolet light system for sterilizing the water in our hot tub at home.

In conclusion, I agree with the story in the Oregonian.

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

By Fred Herbold, CSI, CCS

The Pros Play with a Certified Wood Bat

Here's a pitch for certified wood.

And some tips on how to get a sustainable hit.

And some tools to assure a certified home run.

A few Specifiers Share Group members and I attended a workshop in late September sponsored by Metafore and presented by the Certified Wood & Paper Association (CWPA) called "Wood for Building Green". The workshop was held in the Ecotrust Building, so we were surrounded by examples of the sustainable use of wood. We learned environmental considerations of specifying wood products, how to achieve credit in green building programs by using certified wood, and some pitfalls demonstrated through case studies. I'll share the highlights for those not able to attend.

First, the facts. I know you know, I just want to know you know, you know? (sic Rumsfeld) Research demonstrates that wood creates far less external pollution of air, water or soil than other building materials. Wood is renewable, biodegradable, non-toxic, energy efficient, recyclable, and reusable. Healthy forests themselves are a major necessary component of our global environment. The well-being of human and animal populations depend on natural or well managed forests.

Specifying and building with wood is not enough alone. The world's forests are threatened, no, they are being devastated by poor forest practices. Estimates of illegal logging in Brazil and Indonesia run as high as 80%. Logging for highly prized trees like mahogany and teak in diverse tropical forests ignores lower-valued species and can severely damage vast areas of the forest. Constant emphasis on premium grades of wood causes two unsustainable practices: over-harvesting of old-growth timber from high conservation value forests; and "high-grading" or selective stripping of the largest, most mature trees.

Specifying Forest Stewardship Council (FSC) certified wood can assure the sustainable building team that wood products came from a forest managed to a high standard of sustainability. In addition FSC certifies chain of custody from the forest to the final product manufacturer or vender.

Other certifications that are related to wood products are available from Scientific Certification Systems (SCS). They include Recycled/Recovered Content and No Added Formaldehyde.

That's the pitch, now let's get a hit! It's all about process.

During the programming phase, the project team should establish the sustainable goals, decide which green building program will be used to measure sustainability, and to what level. Most common tools: US Green Building Council's LEED™, USA Corps of Engineers' SPiRiT, and PGE's Earth Advantage™.

Starting in schematics and continuing through design development, identify wood use, possible use of salvaged wood, and possible recycled-content wood products. Check the green

building program guidelines if certification is required and if chain of custody is required. For example, LEED™ requires FSC certification for wood in Credit MR7 but not for recycled content in MR4.

Research the availability of certified products individually rather than assuming all wood in the project can be certified. List the wood products, check if certification is required, then check availability. This is a good time to record at least one source or confirmation.

CWPA's website has a "Certified Product Finder," fantastic. Call CWPA for potential lead times and other concerns.

Convince the project designer that AA grade veneers are not the best choice. Get samples of lower grades.

If you have to have that "special" wood, consider alternative species. Call CWPA or Greenwood International.

Farm grown hybrid poplar is available for woodwork products from Potlatch. It qualifies for rapidly renewable credit and FSC.

Document decisions in specifications. List "FSC certified" products separately. Sections with certified products should include paragraphs similar to the following in Submittals and Quality Assurance articles respectively:

FSC Certification: Submit suppliers invoices with chain of custody number. Identify each certified product separately.

FSC Certified: Certified according to rules of Forest Stewardship Council.

Certified home runs take follow-through. Like running the bases, take them one at a time.

Ask CWPA to review your FSC certified specifications.

Include a Vendor Reference List for FSC certified products in "Information for Bidders." Include a Certified Wood Compliance Form in supplemental bid forms that are due shortly after bids are due. Include a Certified Wood Documentation Form in "Sustainable Project Submittals." *Wood for Building Green* has sample forms.

Most of this article was cribbed out of *Wood for Building Green, a Practical Guide*, published by Metafore and available free by contacting CWPA, at the Ecotrust Building, 503-224-7696 or www.cwpa.info. Visit FSC at their US site www.fscus.org.

Extra Innings: Contact your Congress-person and ask why USFS Forests are not FSC certified.

There are usually two SSG meetings each month, on the 2nd and 4th Thursdays. Announcements are sent out to Share Group attendees approximately a week ahead of each meeting. If you do not currently receive the announcement and wish to, send an e-mail message to either Isaac Tevet (itevet@ffadesign.com) or Fred Herbold (herboldfld@aol.com).

PRODUCT REPRESENTATIVE FORUM

By Randy Tessman, CSI, CDT



Recently I discovered a manufacturer's website that goes against common preconceptions in the architect/design community about the use of proprietary specification in public work. The argument presented supports the idea that it is the specifier's duty to research the best available product within the budget and constraints of the project for the owner.

The prevailing thought is that competitive products should be specified so that project costs can be brought into better control. Often product representatives hear that public work requires a minimum of three "equal" product manufacturers be presented. In the real world, an architect may provide the representative with an existing specification and ask him or her to provide "equivalent" products from their own line to those already specified.

Using this guiding principle, some manufacturers have adopted a "Me Too!" marketing approach. In certain cases, products or even entire product lines have been created only to meet the "or equal" specification. Instead of educating the specification writer on qualitative differences in their products, many representatives find it easier to just get specified by submitting "or equal" products. In turn, I have heard an architect claim that a representative was somehow uncooperative because he didn't submit products equal to those on an existing specification.

Those of us who provide a unique product or one designed for superior performance, however, are frustrated by this philosophy. It seems that the reward for the additional research, product development, and quality control by our companies is that our products are relegated to a list of products without those elements. Performance characteristics are lost to competitive bidding.

After finding the website <http://www.precisionair.com/news/proprrty.pdf> on "Can You Afford Not To Write a Proprietary Specification?" by Jose Baz, I became aware that other industry members share this frustration. I do not know this manufacturer and must therefore ask the specifier to- as always- conduct their own research. The arguments Mr. Baz uses for the justification of a proprietary specification, however, should be considered.

This company's finding that nearly half of the architect firms had never written a proprietary specification seems to hold true for the Northwest. I would hazard to guess that the number might actually be higher for our area.

In answering the "three manufacturer" required argument, this article points out that there are findings within the courts that a proprietary specification is not a breach of anti-trust law. It is the specifier's obligation to study the best choice in products for the Owner. Limitations on budget may require that architect find the "best in class" product for that budget.

The argument that an open specification encourages competition is "devaluing competition" according to Mr. Baz. The company that conducts costly and time-consuming research to create a superior product (the result of competition) is forced to "compete at a lower level of quality and performance" by a nonproprietary specification.

Another common rationalization for not using a proprietary specification is that the architect may get too many arguments if he or she writes a proprietary one. Yes indeed. If you choose a product for superior performance characteristics you should be able to defend your position. The research that an architect conducts to come up with systems and elements of a project must be done carefully. It would be easier to write an "or equal" specification, but isn't more in the interest of the Owner to choose the best available product for the project.

Next Product Representative Sharegroup Meeting will be held January 13, 2004 at Billy Reed's Restaurant, 2808 NE MLK Blvd in Portland, Oregon. This month we will discuss methods to leverage our product to the architectural community. See you there.

**ED LOY
CARTOON**

CSI CERTIFICATION PROGRAM

By: Scott Dicker, CSI, CDT - Certification Chair

CSI – CERTIFICATION PROGRAM CSI – CDT CERTIFICATION STUDY CLASS ANNOUNCEMENT



Advance your career. Learn how to create, interpret and administer construction documents. Earn a competitive advantage. These are three good reasons for signing up for the CDT, CCCA, CCS and CCPR examinations.

The examinations will take place on Saturday, March 27th at PSU- Shattuck Room 355.

Sign up today! Log on to www.csinet.org

To prepare yourself for the Construction Documents Technologist (CDT) examination, please join us for pre-certification classes. These classes will begin on Thursday, January 29 at LSW Architects, 1953 NW Kearney, Portland, OR. 97209. The classes will be held on Thursday from 6:00 to 8:00 pm at LSW Architects' Portland Office. Cost is \$125. There is no charge for students from PCC and CCC Construction Technology Programs and the PSU Architectural Department.

You will need to purchase (or borrow from a past student) the Manual of Practice (1996 edition & 2000 Addendum); AIA A201-1997 *General Conditions of the Contract for Construction* ; and EJCDC 1910-8-1996 *Standard General Conditions of the Construction Contract*. You may purchase these documents from the the CSI Institute website www.csinet.org.

Chapter Certification Study Class schedule is as follows:

January 29th	Unit 1 - Construction Process Overview (Jody Moore)
February 5th	Unit 2 – Construction Contract Types (John Lape)
February 12th	Unit 3 - Modifications and Substitutions (Ray Totten)
February 19th	Unit 4 - Rights, Duties, Responsibilities (Jody Moore and Rick Heiserman)
	Unit 5 - Contract Provisions (Note: This sessions may run 3 hours)
February 26th	Unit 6 - Use of Construction Documents (Dennet Latham)
March 4th	Unit 7 - Organization Formats (Bob Easton)
March 11th	Unit 8 - Interpreting Construction Documents (Skip Brown)
March 18th	Make-up class night, if necessary
March 25th	Review night (All teachers)
March 27th	CDT Exam date PSU- Shattuck Room 355

Please contact Jane Phifer, CSI Portland Executive Director @ jane@portlandcsi.org or 503-805-2500 to sign up and pay for the CDT classes.

SPECIAL ANNOUNCEMENT!

We will offer special study sessions for those interested candidates who want to take the Certification Construction Specifier (CCS); Certified Construction Products Representative (CCPR): and Certified Construction Contract Administrator (CCCA) examinations.

IMPORTANT DATES AND COSTS

March 27, 2004 – Exam in Portland, OR

Register December 2, 2003 to January 31, 2004

CDT: Members \$220, Non-Members \$330

CDT-Students: \$90 Members & Non-Member

CCS/CCCA/CCPR: Members \$275, Non-Members \$385

Register online: <http://www.csinet.org>

The above costs are for the exam only.

THE NOVEMBER 7, 2003 BOARD MINUTES

CALL TO ORDER: The meeting was called to order at 12:05 by President Cherie McNabb at the Portland Chapter AIA Conference Room.

PRESENT: Michael Wilson, Ray Totten, Dennet Latham, Scott Dicker, Jim Wilson, Denise Carpenter, Joe Bolkavatz, Doug Allen, Carolyn Miller, Jane Phifer

ABSENT: Bob Schroeder

GUESTS: Rick Heiserman, Ellen Onstad, Erica Bitterman, John Lape, Lee Kilbourn

1. REVIEW OF GOALS FROM PLANNING SESSION

Cherie went over the goals. Cherie stated that we are doing a good job of accomplishing our goals. Jim stated he is working on lining up the keynote speaker for the Products and Services Fair. Additionally he has a couple of back ups. Scott stated that at the September meeting we announced that we are working on 1 new member for each member. Denise Carpenter is heading up the awards committee with the help of Jim Wilson.

1. COMMITTEE REPORT

Products Fair: Sold more booths, have had no seminars signed up at this time. Working on new flyers for promoting the products fair and giving it a new look. Maybe done for this year or could be next year. New design idea will be brought to the board for approval.

Website: A motion was made by Carolyn, and approved to go with SpecSource for our website. Jane will contact SpecSource and get it going.

Newsletter: Deadline is tomorrow for the December meeting.

Program: October meeting was very good. However, we had some additional costs due to relocation of the meeting. The November meeting is set up. December is going to be "What's happening in Vancouver" an extended social hour with food stations. January is a joint meeting with ASPE at the Princeton on the 3rd Tuesday. Hanset Stainless is sponsoring the speaker for January.

Certification: Classes are going to start January 29th, 6:00 pm starting time. LSW Architects in Portland has volunteered their facility for us to hold the CDT classes. We are not buying MOP's. Participants can buy the MOP directly from CSI or borrow a copy from friend or associate. The exam is March 27th Christine Steel from Port of Portland will be the assistant proctor. Scott would like to hold a class for CCPR, the teachers will have a meeting and figure out how to accomplish this task.

Education: No seminars in the works at this time. We have renewed our agreement with Metro. Talk of having one in May on the new building code.

2. FINANCIAL REPORT

Dennet passed out a financial report outlining the additional costs from the October meeting. He also passed out a list of how we would break down the budget. Taking the old budget and putting it under new classes. The hope is that it will be a cleaner easier budget report to read. A motion was made by Carolyn Miller and passed to accept the budget format as presented by Dennet.

1. BOD MINUTES

A motion was made and approved to accept the October minutes with the discussed revisions.

2. NEW BUSINESS

Cherie brought up the fact that she gets people asking us to promote seminars through our mass email. The board agreed that we should pass on this information through mass email if it is a benefit to membership. Rick suggested that we consider if the notices are for non profit organizations or not. It was brought up that we need to make the industry aware that we are offering to do mass emails. After much discussion it was decided that we need some type of criteria for what we will email out and what we won't. It was stated that these types of email notices should not be sent to our members that have requested no email advertising in their member profile.

Region Directory – In March 2002, the NW Region made an agreement with McGraw Hill to print the NW Region Directory for no cost, knowing they would make costs up in advertising. Additionally, if they received enough advertising they would also distribute the directory. They were short by about \$3000 in meeting the free distribution threshold. The directory is a valuable resource for our members. Therefore in the past the Portland chapter has contributed funds to help pay for some of the region directory in lieu of producing one. The additional cost to the NW Region for distribution is \$1900.00. It was discussed why the rest of the region's chapters wouldn't be able to help with distribution. Seattle produces their own directory so they historically have not helped in the cost of producing. Rick Heiserman stated that the NW Region is asking the chapter to pay \$950 and the region will pay the other half. Since we already had \$1000 budgeted this year for this purpose, a motion was made by Ray Totten to offer the \$950 to assist the NW Region cover costs for the distribution. After much discussion it was amended to support half the cost of distribution not to exceed \$1000.00 passed.

Archives have been moved from Margie Largent's office to Lape's office.

Dennis Obert fund: we will put the sign and box out at the dinner meeting. They received \$10,000.00 at their benefit held last month.

The board thanked Ford Graphics for coming up with the idea of sending out the meeting notices with all their packages. Precision Images is also doing this to help with "getting the word out"

ACTION ITEMS

- *Jane to work with SpecsSource to get the website running
- *Jim to work on Chapter Commendation Award
- *Lee to work on Publication Commendation Award

3. NEXT MEETING

Next board meeting is for December 2, 2003, noon at the AIA office.

Adjourned at 1:25

PROMOTE YOUR COMPANY

It is easier than ever to promote your company and support CSI. See the exciting offers below!

We are offering opportunities to our members to promote their companies by sponsoring our CSI Events.



Here is how:

Table Top Displays:

Your firm will have an opportunity to set up a tabletop display at our monthly Program event. The sponsorship fee for each display is \$125/members and \$150/non-members. The limit is four tabletop displays per meeting.

Tech Talk:

Your firm will have an opportunity to make a 45-minute presentation to the interested chapter members during the hour before the chapter meetings. The sponsorship fee for each Tech Talk is \$200/members and \$225/non-members.

We will announce your firm's sponsorship in the *Predicator* and at the meeting.

Please contact **Jane Phifer**, CSI Portland Executive Director at jane@portlandcsi.org or **503-805-2500** if you would like to share your product and your knowledge with a Table Top Displays or Tech Talk.

METRO - RELEASES SECOND EDITION RECYCLING GUIDE FOR CONTRACTORS

By: Jef Davidson

Metro has produced an updated version of its free Construction Site Recycling Toolkit, a resource guide of more than 100 metro-area locations that recycle or salvage construction debris.

Metro published the first edition of the guide two years ago, and it has enjoyed strong support from the construction industry. This revision updates the recycling facility list and map, and also is available online on Metro's web site at www.metro-region.org/toolkit.

Metro estimates that more than 20 percent of the waste going to landfills in this region comes from construction and demolition activities. Fifty percent of that waste could be recycled, salvaged, reused or otherwise kept out of the landfills.

"We're working directly with the construction industry and builder associations in the area because construction debris has one of the single largest impacts on the region's landfills," said Metro Council President David Bragdon.

"The benefit to the industry is that recycling construction debris often costs less than disposing of it," he said. "And re-using these materials can further reduce costs for both professional builders and even homeowners who could use these supplies."

Metro and its regional local government partners have found strong support for recycling among construction industry associations, public and private construction plan centers and building permit centers, and commercial building supply retailers.

The Toolkit and a companion planner's guide for architects are endorsed by local chapters of the American Institute of Architects, Associated General Contractors, Associated Builders & Contractors, the Construction Specification Institute, the Oregon Remodelers Association, the Used Building Materials Association and the Homebuilders Association of Metropolitan Portland. Some of these associations' members and staff provided direct feedback on both publications.

Six months after distributing the first version of the Toolkit in 2001, Metro conducted a survey to determine if the resource guide was being used and if it was having an impact on contractors' recycling efforts. The survey indicated that 73 percent of Toolkit recipients said they had reviewed the handbook or shared it with others in their company. Of those, 13 percent reported that the Toolkit changed their recycling behavior "a great deal," and 42 percent reported that it changed their recycling behavior "a little." When asked why their recycling behavior increased, 48 percent noted it was because they "learned about new recycling facilities they hadn't yet used."

In last month's *Predicator* we asked:

NAME THAT MEMBER.....

Which Portland CSI member started the chapter's award winning share groups? Email jane@portlandcsi.org if you know the answer and win a free CSI dinner.

AND THE WINNER IS.....

Jody Moore with **DeaMor**, she correctly answered the question. **Dennis Obert**.

Congratulations Jody your dinner at the chapter meeting in January is free.

(continued on page 9)

RENEWING CSI MEMBERS

JUNE 2003

Abrahamson, Tim J., CSI
Aldrich, Esq., Dean E., CSI
Alexander, Richard E., CSI
Blenkinsop, Richard W., CSI
Brockway, Elizabeth, CSI
Brown, Bruce C., CSI
Charles, Edward E., CSI
Cleveland, Andrew W., CSI
Eggleston, Donald D., CSI
Fatz, Edward F., CSI, CCPR
Gibson, Cornelia, CSI, CDT
Grover, R. Kumar, CSI
Hanset, Jim, CSI
Herbold, Fred, CSI, CCS
Kilbourn, Lee, FCSI, CCS, FAIA
Klas, Robert R., CSI
Loy, Edward, CSI, CDT
Luey, J., Min, CSI
Mann, James, CSI, AIA
Meekcoms, Raoul, CSI
Miller, Glen, CSI
Milsten, Dennis, CSI
Nelson, Brian L., CSI, CDT
Seeley, Les, CSI
Sheehan, Jim, CSI, CDT
Smith, Jennye, CSI, CDT
Van Scoy, Jerry, CSI

METRO SECOND EDITION (Continued)

Copies of the revised Toolkit are being mailed to 8,000 contractors, developers and architects in early November. The Toolkit also is available to the general public. For more information, call Metro Recycling Information at (503) 234-3000 or use the online Toolkit at www.metro-region.org/toolkit.

Metro, the regional government that serves the 1.3 million people who live in Clackamas, Multnomah and Washington counties and the 24 cities in the Portland metropolitan area, provides planning and services that protect the nature of the region.

CWI WANTS YOUR PROJECTS

If you're about to build, or are rehabbing a multi-family project in the Pacific Northwest, this is a good time to think about using energy efficient windows. Why? If you do, the Commercial Windows Initiative (CWI) is offering to provide you with free technical and promotional assistance for your effort! Your project may even end up featured in a Project Profile!

The CWI is on the lookout in the region to showcase projects that use windows that meet CWI criteria. The CWI criteria for windows includes a U-Factor of 0.35 or lower for non-metal framed windows and 0.42 or lower for metal-framed windows. That criterion brings to the Northwest the best of commercially available windows in all operating types. CWI has a goal of increasing the energy efficiency of windows used in small to medium sized commercial and multi-family projects across the region. The focus of the initiative is on manufactured windows.

CWI-qualified windows are widely available from manufacturers around the region. They offer better energy performance and added value to commercial and multi-family projects according to Gary Curtis, director of CWI.

"A CWI-recognized window will help reduce heating and air conditioning use, while providing a significant amount of natural light and UV protection," claims Curtis. "The high performance is matched by a relatively fast energy payback of about seven years, and that's before you factor-in the various incentives and tax credits that are available for installing these windows. Throw in our offer of free technical and promotional assistance for the project and you can't lose!"

The Commercial Windows Initiative has experts on staff that can assist with virtually any technical issue or question relating to windows and energy use you may encounter on your project. "We work closely with window manufacturers and building owners to help resolve issues related to product need, installation, and a host of other matters," states Curtis. "We pride ourselves on answering inquiries in a timely manner...usually the same day."

CWI has a promotional team at the ready to help bring the kind of attention to a project that any building owner would love to have. Primary among those is the program's offer to highlight qualifying projects in their Project Profile series. "We want to shed a very positive light on buildings that use CWI-recognized windows," states Curtis. "We will develop a Project Profile around the job. We'll then expose it to the media, the design and building communities, and utilities across the region, as an example for others to follow."

The Commercial Windows Initiative is a project of the Northwest Energy Efficiency Alliance (The Alliance). The Alliance is a non-profit group of electric utilities, state government, public interest groups and industry representatives committed to bringing affordable, energy-efficient products and services to the marketplace.

For more information regarding CWI and their assistance offer, please contact them at:

Commercial Windows Initiative
(503) 587-8528
info@commercialwindowsinitiative.org

FLY ASH SUPPLY AND QUALITY IN THE NORTHWEST

By: Richard R. Halverson, ISG Resources, Inc.

Concrete with fly ash has become commonplace in the Northwest, with many designers specifying higher percentages of fly ash in order to archive LEED points in projects that have adopted the USGBC's LEED standards. The Centralia Steam Plant in Centralia, Washington has been the primary generator of fly ash for the market for over 20 years, supplying the construction industry with some of the highest quality fly ash in the nation. However, in the month of August the quality of the fly ash supplied to the market changed due to a new and unusual coal seam at the Centralia Steam Plant. Due to this change, fly ash generated by the plant was disposed with the market being supplied from ISG's storage facility in Centralia while the ash quality at the plant was being resolved. The end result was a reduction in the volume of fly ash available to the market for two and a half weeks, along with some added effort on the part of concrete producers when using fly ash in air entrained concrete and a short term darkening of the ash. The plant has since used the last of the unusual coal seam over Labor Day and the fly ash has been looking "normal" since that time.

There may be some confusion in the industry regarding the quality of the material supplied from the Centralia plant during this time. We want to assure you that the fly ash shipped from the Centralia plant has always met the conditions and specifications of ASTM C 618 and the Washington and Oregon DOT's. What was seen was a change in the make up of residual carbon typically seen in the fly ash. This change could require the concrete producer to use additional air entrainment chemical and possibly make continuous adjustments to reach a target air percentage in concrete.

In order for concrete to have durability in wet and freezing conditions it is commonplace to entrain air bubbles in concrete that would be the most susceptible to surface damage from freezing and thawing. Concrete that can have a saturated wet .

surface when it freezes, like an outside slab, can be susceptible to freeze – thaw damage. This includes roadways, sidewalks, exterior concrete slabs and some bridge elements. Vertical elements like columns and walls and interior slabs that are unlikely to have a saturated surface and be in a freeze – thaw environment typically are not air entrained. While not all concrete requires air entrainment, all materials at a concrete plant must be usable in air entrained concrete, and while specifications for fly ash do not cover this issue, ISG chose to dispose of fly ash until the ash quality at the plant improved and ISG's Carbon Fixation (CF) system could be upgraded to handle the change in the fly ash.

The CF system was developed by ISG to lessen any impact fly ash may have on air entrained concrete and has been in use at the Centralia Steam Plant for over two years. When needed, the CF system adds a reagent to the fly ash that neutralizes the impact residual carbon may have on air entrainment in concrete.

This system had worked well for two years but was initially overwhelmed by the ash quality until upgrades could be made to the system.

Hopefully this answers many of the questions regarding fly ash supply and quality in the northwest. The Centralia plant continues to produce fly ash and will do so for many years to come. It appears that the ash quality in August was a one time issue and ISG has upgraded the CF system to better handle the type of fly ash seen in August should it ever occur again. ISG is committed to supply the fly ash needs of the design and construction community, and will continue to make improvements wherever possible to provide the market with fly ash that is predictable in use and performance.

CROSS WORD PUZZLE

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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)
Mark Elliott, CSI, CDT.....509-624-4281

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.....541-687-9600

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

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January 2004

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	31

- 1/6 CSI Board Meeting - AIA Office
- 1/8 CSI Specifiers Share Group Meeting
- 1/13 CSI Product Representatives Share Group Meeting, Billy Reed's Restaurant
- 1/12 CSI Membership Committee Meeting, Billy Reed's Restaurant
- 1/20 CSI/ASPE Chapter Meeting - Princeton Ballroom (Note 3rd Tuesday)**
- 1/22 CSI Specifiers Share Group Meeting
- 1/29 CSI Program Committee Meeting, Cadillac Cafe
- 1/29 CSI Certification classes start

February 2004

Sun Mon Tue Wed Thu Fri Sat

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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29						

- 2/3 CSI Board Meeting - AIA Office
- 2/9 CSI Membership Committee Meeting, Billy Reed's Restaurant
- 2/10 CSI Product Representatives Share Group Meeting, Billy Reed's Restaurant
- 2/10 **CSI Chapter Meeting - Princeton Ballroom**
The Future of Sustained Development
- 2/12 CSI Specifiers Share Group Meeting
- 2/26 CSI Specifiers Share Group Meeting
- 2/26 CSI Program Committee Meeting, Cadillac Cafe



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