



Knowledge for Creating
and Sustaining
the Built Environment

The Predicator

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Portland, Oregon Chapter — The Construction Specifications Institute

C.S.I. Portland Chapter
Phone: (503) 805-2500
Fax: (503) 587-0337
E-Mail: jane@portlandcsi.org
Web site: www.csinet.org

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CSI 2004 Fall Construction Site Tour

PIONEER COURTHOUSE

Tuesday, September 14, 2004

The oldest extant Federal building in the Northwest is undergoing a radical seismic upgrade and a meticulous restoration that promises to preserve not only the building structure but especially the architecture.

Soon this un-reinforced masonry structure with the octagonal wood cupola will be floating, its base isolated from the earth's movement by immense concrete pads. A complex network of "needle beam" bracing and shoring is keeping the building in place while digging goes as far as 16 feet down to create a new basement level.

Inside a full restoration is underway, removing previous renovations to reveal the original 1875 materials and to repair damaged finishes.

This tour will offer you a very rare opportunity to walk under and inside this grand urban monument and experience the exciting technical challenge of preserving it.

US General Services Administration (GSA) has teamed up with historic renovation veteran **Don Eggleston, CSI, SERA Architects Principal** and **Historical Consultant Peter Meijer, Architect** to design the solution with structural engineer **kpff**. Our tour host, **J.E. Dunn Construction**, won the project with competitive construction engineering that helped put the project in budget.

Tour stops will include the original grand staircase and the beautiful stately courtrooms. You will learn how base isolation works and why it was selected for the seismic solution. And along the way you will see ornate plaster finishes, the old growth timber structure and 30' long clear vertical grain fir trim that distinguishes this historic building. *Please see page 2 for more about the history and architecture of this building.*

The Tour—4:30 PM Gather at 6th and Morrison at the northwest corner of the project. You will join a Tour Guide and a Station Speaker for our shotgun start.

Dinner: Following the tour, we will meet at the Princeton Ballroom for a delicious dinner served by Jake's. After dinner, the Owner, Architect and Contractor will join us to discuss the historical importance of the project and the GSA's vision for its future.

Transportation: There is no parking at the project. Best bet is to park near the Princeton and take MAX to the site. It's free and it's fun!

Cost: \$30.00 per person -- prepaid reservations only—by September 10, 2004.

Tour Only is Available for \$20.00.

Event is limited to the first 100 people who reserve.

This is a rough early construction site. Be safe! Wear closed-toe flat shoes.

Please see the insert for address, directions and easy registration

1 LU is offered for this meeting. Sign up at the registration desk.

PIONEER COURTHOUSE - PORTLAND, OR

Building History

The Pioneer Courthouse is the oldest extant Federal building in the Pacific Northwest. Design began in 1869 during Alfred B. Mullett's (1834-1890) term as the supervising architect of the treasury (1866-1874). Although similar in design to other work by Mullett, two local men, E.B. St. John and John H. Holman, contributed to the building's appearance. Completed in 1875, the Pioneer Courthouse presents a dignified Italianate design following the precedents of civil architecture in both San Francisco and Portland.

In 1869 the Portland City Council authorized Mayor Hamilton Boyd to sell Block 172 to the U.S. Government for \$15,000. At the time, the Federal Government was criticized for locating the U.S. Courthouse and Post Office so far from the center of town. The building cost \$396,500 to construct and was officially completed on October 1, 1875. The Pioneer Courthouse was designed to accommodate all necessary offices and services of the Federal Government in Portland. It housed the U.S. Post Office on the first floor and the Federal Court on the second floor. Other offices included U.S. Customs Service and the Assessor and Collection offices of the U.S. Internal Revenue Service. The third floor contained adjunct offices, while the basement was used for employee facilities and storage.

In 1902 the U. S. Congress approved \$200,000 for remodeling and a large addition. The addition by Supervising Architect James Knox Taylor doubled the size of the basement and first floor and created two wings at the second and third floors. The infamous Oregon Land Fraud Trials of 1904 were held in the building. Special Federal Prosecutor Francis Heney brought 33 criminals to justice, charging Senator John H. Mitchell and representative John Williamson with plundering Federal lands, state school lands, and the timber resources of the Siletz Indian Reservation.

In 1933 the U.S. Post Office and Federal Court moved to new quarters at SW Broadway and Main streets. The building was

renamed the Pioneer Post Office and re-opened in early 1937 as a branch postal station. In 1973, after a major rehabilitation for use by the U.S. Court of Appeals for the Ninth Circuit, the building was dedicated as the Pioneer Courthouse. The Pioneer Courthouse was designated a National Historic Landmark in 1977.

Architecture

With its dramatic three-story, classical facade and cupola, the Pioneer Courthouse is the focal point of the Pioneer Square Plaza in downtown Portland. Mullett's original Italianate design for the building consisted of a rectangular plan and symmetrical exterior. The sandstone faced courthouse is elevated on its site at the center of a full city block. The park-like setting surrounding the courthouse is landscaped with mature trees, some of which were planted at the time of construction in 1873.

Each elevation has a projecting bay capped with a classical pediment. These bays were centered on the façade before the 1902 expansion. The first story has rusticated pilasters that flank segmental arched openings. A stone stringcourse separates the first floor from the second and third floors. Smooth Doric pilasters resting on the stringcourse span the second and third floors. Fenestration consists of tall, narrow windows capped with cornices supported by brackets on the second floor and small, simple square windows on the third floor. Crowning the hipped roof are eight stone chimneys and an octagonal wood cupola with arched windows.

The Pioneer Courthouse is faced with smooth-cut, Bellingham sandstone from the Roth Stone Quarry in Chuckanut, Washington, with a base course of rough-faced Tenino sandstone. Original walls are constructed of basalt squares and rectangles in a broken ashlar pattern with a Tenino sandstone cap. Sandstone and basalt were used for the basement walls, which are over four feet thick in places. The structure of the building above the basement is brick, stone, old growth timber, and steel (from the 1905 addition).

Join us Tuesday, September 14 when we tour this historic building. See Cover for details.

Tom R. Deines Becomes a Director of CSI



ALEXANDRIA, VA (August 11, 2004) – Eugene, Ore., project engineer Tom R. Deines, CSI, CCCA, has become an Institute Director representing CSI's Northwest Region and a member of the Institute Board. In that role he is helping determine CSI's strategic direction, establish policy, and oversee major Institute programs, products and activities.

Deines is a project engineer for civil and heavy construction projects for Wildish Standard Paving Company in Eugene. He joined CSI in 1993 and is a member of the Willamette Valley chapter.

Members in CSI's Northwest Region elected Deines as a director in February 2004 and he took office July 1 for a three-year term.

Previous national CSI leadership positions Deines has held include being a member of CSI's Technical Committee. He also was an author of the Construction Module of the new edition of CSI's Project Resource Manual-Manual of Practice. It is the construction industry's authoritative reference for developing and using construction documents. Deines also has chaired the CSI Northwest Region's Technical Committee and the region's Planning Committee.

Deines' chapter-level CSI activities include having been the Willamette Valley chapter's president, treasurer, and chair of the Nominating, Planning, and Publications committees. He is a two-time recipient of the CSI Region Technical Excellence Award and received the Region Newsletter Excellence Award.

Congratulation, Tom, and thank you for representing all of us in the Northwest!

PRESIDENT'S MESSAGE

By Cherie McNabb, CSI, CDT



Pres. Cherie. & Jane Phifer Exec. Director

Welcome back to the 2004-2005 year for the CSI Portland chapter. We are all looking forward to the coming year with many great programs and education opportunities for the construction industry. I first need to look back a bit. I want to reminisce a bit.

Developer – Robert Ball



In June we had an excellent tour of the Meier and Frank Warehouse Conversion Project 'Avenue Lofts'. We were joined by the Contractor, Architect and the developer Robert Ball. How often do we get this type of opportunity? May I answer this for you? –From my own experience we rarely get this type of opportunity. Let us

commend the programs committee for these types of opportunities. We were able to walk the entire building, learn about the building concepts and challenges that the architect, contractor and developer had. Most CSI chapters do not offer tours of buildings under construction in their area.

After the tour we all gathered at the Princeton. While dinner was served I was able to recognize a few of our stars.

Organization Certificate of Appreciation

Howard S. Wright Construction
SERA Architects Inc.

Craft Proficiency Award

Hanset Stainless ~ Mark Reeves

Education Award

Rick Heiserman, CSI, CCCA,

Certificate of Appreciation

Erica Bitterman, CSI
Dennet Latham, CSI, CCS

President's Certificate

Jody Moore, CSI, CDT
Ellen Onstad, CSI, CDT
Lee Kilbourn, FCSI, CCSI, FAIA
Jane Phifer, CSI

There are plenty more where these came from... THANK YOU to all.



Summer planning results; The Vision of CSI 2004-2005 2004 – 2005 CSI BOARD OF DIRECTOR GOALS

GOLF TOURNAMENT

- Board get donation money or prize
- Increase helpers day of tournament
- Need a another co-chair

PRODUCTS FAIR

- Registration/list of attendees to vendors
- Keynote speaker
- Variety of vendors

PROGRAMS

- Two New Member Orientation meetings
- Survey every month on tables

PUBLICATION

- Insert meeting notifications in newspapers, plan centers & associations

THE PREDICATOR

- Make deadline
- Future program tickler announced at meeting and in The Predator

WEBSITE

- Make monthly deadlines
- Counter on website

PROFESSIONAL DEVELOPMENT (Education)

- Need committee chair and co-chair
- Two seminars fall & spring - 1 being at the time of USGBC with Paul Bertram in November.

CERTIFICATION

- Need committee co-chair
- Trainers need to be trained

STUDENT AFFAIRS

- Need Co-chair (chair will be Carolyn Miller)
- Reactivate committee

I will discuss the goals in more detail next month. Have a great month... Questions give me a call.

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

By: Fred Herbold, CSI, CCS

Conversion to MasterFormat 2004 Edition Begins Now

That's the headline at CSINET, since MasterFormat 2004 (MF-04) was published on the CSI website in June.

What does it mean? How much difference is there between the 1995 Edition and MF-04? How and when will this conversion take place? These are questions the Specifiers Share Group discussed during two sessions.

MasterFormat is the list of numbers and subject titles for organizing information about construction work requirements, products and activities. In short, it's the master list of Section numbers and titles. These have, until now, been organized in 16 Divisions, 1 through 16. Section numbers had 5 digits, so Section 03330 was in Division 3, Section 15450 was in Division 15.

The 2004 Edition expands the number of Divisions to 50 and also expands Section numbers to six digits. The result is a re-assignment of numbers to topics. Most notably our consulting engineers, with the exception of structural, will find their construction topics in the new Divisions above 20. The ultimate result is a greatly expanded system of topics and numbers that is logically organized.

An example: "Section 03330 Architectural Concrete" (MF-95) becomes Section 03 33 00 Architectural Concrete (MF-04). No biggie. That's typical of structural and architectural sections.

Here's a civil example: "Section 02310 Grading" (MF-95) moves to "Section 31 22 00 Grading" (MF-04).

In MF-04 look for plumbing fixtures in "Section 22 41 00 Residential Plumbing Fixtures" or in "Section 22 42 00 Commercial Plumbing Fixtures".

Notice the two spaces in the six digit number divides the digits into three pairs that represent three levels. The first pair is the Division. For example, in section number 03 33 00, Division 03 is Concrete. The second and third digit pairs represent level 2 and level 3 classifications. We'll still be able to use "broad scope/level 2" sections like "08 14 00 Wood Doors" or "medium scope/level 3" sections like "08 14 16 Flush Wood Doors"

Level 4 classification is also available if further sub-classification is necessary. Level 4 is written by adding a decimal and two digits, for example "08 14 23.16 Plastic-Laminate-Faced Wood Doors".

Note of interest for you "experienced" specifiers. Remember Division 0 in the 1988 Edition? Well, it's reborn in 2004 as Division 00 Procurement and Contracting Requirements.

The changes are significant. We in the Share Group concluded that project owners and developers, general contractors and subcontractors, material suppliers and manufacturers will need to be aware of the new system before specifiers can successfully implement it. And that will take time and education. Help is here and on the way.

Please visit CSINET and download an Adobe Reader™ copy of MasterFormat 2004 at www.csinet.org/masterformat, click on the "Hot Topics" box. History, explanation and summary are included with the list of numbers and subject titles. The hard copy should be available this fall.

Major stakeholders-organizations like Sweets, McGraw-Hill, ARCOM and BSD have seen the new numbers and titles. Most have scheduled their conversion to MF-04.

MasterSpec™, SpecLink™, and SpecText™ will all have MF-04 versions of their specifications by next year. All three say they will include software to help with your conversion.

Sweets™ has scheduled their 2006 catalogue edition for MF-04. We can assume many manufacturers' literature will be converted by late next year.

At the Share Group, we used two sessions to expand our discussion and include a broad range of consulting engineer specifiers. Together we agreed that a target date for all Portland area specifiers to convert to MF-04 is a good idea for the local construction industry. Our target date is the first quarter of 2006.

In the mean time, we are dedicated to get the word out. We'll be discussing progress quarterly. And, of course, reporting any MF04 implementation news here.

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 (fjherbold@comcast.net).

ED LOY CARTOON

PERKY'S NOTES

By: Perky Kilbourn, CSI



"Nanotechnology" is the study of materials of less than 100 nanometers.

A nanometer is one billionth of a meter or about the length of 10 hydrogen atoms in a row. In non-scientific terms, a nanometer is smaller than a human hair.

Speaking of hair and nanotubes - they have at least one similar property - they both tangle - form clumps and bundles - which limits their usefulness. As a child and also as a mother, combing tangles out of hair was a painful process. I am glad the nanotubes are not attached to any child who will cry when the nanotubes get pulled as they are straightened out.

Research is being done on the physiological effects of nanoparticles and nanomaterials on humans, other organisms, ecosystems, and the environment. Using nanotechnology for surveillance equipment is also feasible but may not be desirable. Just imagine a surveillance camera so small that you couldn't see it - Big brother really would be watching!

Carpet manufacturers are experimenting with using nanotechnology to attach "soil protection" to carpets. This means the microorganisms are going to have to figure out a way to attach to "soil protection" which has been attached to the carpets to prevent the microorganism attachment to the carpet.

Microorganisms are "street-smart" and should be able to "figure out a way". After all, microorganisms have been successful at becoming resistant to almost all the antibiotics humans have concocted so microorganisms should be able to handle the "soil protection" too. I am going to root for the microorganisms to do their thing and learn how to attach to carpet which has "soil protection".

Scientists are experimenting with a nanoscale patterning technique in which a special probe delivers a pattern across a sample substrate. This Dip Pen Nanolithography™ (DPN™) sounds fascinating and there are all sorts of possible uses. Complex patterns with multiple inks will be possible which means no excuse for large patterns with few colors. What if one likes large patterns with few colors? Hopefully we can still have both extremes. Another way to say it is that variety and diversity are good!

Engineers are developing a carbon nanotube-based transistor which may lead to having complex circuitry build itself. What is fun is that some of the research is being done at the Jozef Stefan Institute in the Slovenia's capital city by Dragan Mihailovic. In

1990, Mihailovic returned home from studying and working in the USA. In 2003, Mihailovic launched a spin-off company, MO6, to commercialize his nanowires. I assume this means that Mihailovic learned how to be capitalist while in the USA and is applying what he learned. My response is "Go for it!"

James Gimzewski, Professor of Chemistry and Biochemistry at UCLA and Victoria Vesna, Artist and Chair of UCLA Department of Design/Media Arts have created an interactive exhibit. Visitors can experience what it is like to move molecules and manipulate atoms one by one through art-making exhibits. My husband, an architect, and I, a scientist, watched the television program with fascination. After 43+ years of marriage others finally agree that art and science are compatible.

I especially enjoyed watching the people on the television program "Nanotechnology: Where Art Meets Science" push the "Bucky Balls" around. It prompted me to look up when Richard Buckminster Fuller patented the geodesic dome. One of my husband's books, *Science & Building - Structural and Environmental Design in the Nineteenth and Twentieth Centuries* by Henry J. Cowan © 1978 by John Wiley and Sons, Inc., advises on page 173 that the patent was in 1954. I graduated from High School in 1954, and if you do the mathematics, this was fifty years ago. Times flies when you're having fun and you enjoy what you do for a living.

It was after 1954 that the geodesic dome became a three dimensional ball-shaped object which became known as a "Bucky Ball". I know I have read and saved articles on the "Bucky Ball". Now all I have to do is find my files. I could do a whole article on the history of the "Bucky Ball". Closing one laboratory after 18 years creates a logistic problem - where do I put things? Gradually, reprints are getting sorted out and files are being found. So watch the pages of the *Annals of Improbable Research*, the journal of inflated research and personalities. Maybe there will be a review of the history of the "Bucky Ball". It sort of fits since "Bucky Balls" are *inflated* structures - usually hollow.

The Oregon Legislature recently approved funds for Oregon Nanoscience and Microtechnologies Institute related construction:

Graft Hall at Oregon State University will be renovated to house the Microproducts Breakthrough Institute - glad to see my alma mater get some money.

University of Oregon will construct an Oregon Nanoscience and Microtechnologies Institute research building on its Riverfront Research Park. When I taught at the University of Oregon for a couple of years in the 1960s, this was where I housed my white rabbits. Nanotechnology is a better use for the building than housing white rabbits?

Portland State University will expand its microscopy facility. As a resident of Portland, Oregon, where Portland State University is located, I am curious about the "microscopy facility" at Portland State University. Maybe it is "microscopic" so people are not able to see it.

FABRIC WALL AND CEILING PANELS

By: Tom Coffey, CSI, ArchiTextures



First impressions count. Knowing how to convey the right image is a highly prized skill. What impressions will the interior spaces of your current project convey to visitors and occupants? When your project is complete and the client moves in, will the occupants feel comfortable, productive, and energized in their new surroundings? How can fabric wall and ceiling panels help

create positive first impressions and lasting approval in all those who visit, work in, or reside in the structure?

New panel fabrics

Fabric wall and ceiling panels are often one of the key ingredients in effective interior architectural treatments. Defining interior spaces with carefully selected fabric patterns introduces colors and textures not readily available with other finishes. And recently there has been an explosion of new fabrics, new patterns and colorways that create effects only achievable with textile applications. Most fabric houses produce different fabrics for different uses, and can show beautiful textile collections for wall-covering, upholstery, and panel applications. Because of the heavy backing, wall-covering fabrics are unsuitable for stretching over panels, and are better left to direct application. Panel fabric designers have vastly improved the quality and extent of panel fabrics available. And many new designs incorporate 100% recycled content.

Panel treatments

Used in combination with wood or metal panels or reveals, fabric panels can really make a statement. Non-directional fabrics on horizontal bands of panels are an elegant solution on full-height walls in lobbies or atrium settings. Fabric panels can match the curve of concave or convex surfaces easily and more cost effectively than wood or metal panels. Different types of panel construction exist to fit different conditions and to lend the architect or designer more design flexibility. For instance, pre-fabricated panels will generally be limited in size to the 4-foot width of the core material being wrapped. Some field-fabricated systems span widths of 10-feet and wider. Pre-fab jobs with many panels the same size may cost less than if the job were field-fabricated. Field-fabricated panels are more suited to maintaining tight tolerances and adapting “on the fly” to as-built conditions while maintaining schedules.

Form and function

Function follows form in fabric panels. Think about it. As one of the few “functional interior finishes” fabric panels can be both aesthetic and sound-absorbing, artistic and tackable. In fact, there are many variables to consider when balancing form and function of fabric panel systems. In their most basic form, fabric panels are simply upholstered walls. Field fabricated, stretched fabric panel systems can accomplish this end very efficiently and cost-effectively with a 3/8” thick panel using fire rated Dacron polyester padding. Upholstered wall panels may be just right for spaces requiring a light treatment of acoustical absorption with an NRC rating of 0.40. This means that 40% of the noise that finds the surface is absorbed in the panel. Tackable wall panels on the other hand, will contain a core material of either mineral fiberboard or Homasote. Homasote is made completely of recycled material, and also carries a high STC rating because of its density. The high density means that while they aren’t highly absorptive, Homasote panels can help isolate sound between spaces, provided all other sources of sound transmission are addressed.

Interior acoustics

Interior acoustics is significantly important to the functionality of a given space, and the results of good acoustical design can be very rewarding for the occupants. Well-designed fabric panel systems offer some of the best acoustical solutions available, even in highly technical spaces such as recording studios. The object of most acoustical fabric panel designs is to reduce the reflection and reverberation of unwanted noise to acceptable levels. A core of medium-density semi-rigid fiberglass board 1 inch thick with an NRC rating of 0.80 is a typical acoustical panel assembly. Many other variations in thickness, density, and composition of absorbing material exist, and can be specified to solve acoustical problems addressed by professional acousticians. The newest sound-absorbing material on the market now is a core of medium-density semi-rigid recycled cotton board. In terms of sustainability issues, the cotton board both has a high recycled content and is a renewable resource material.

The wait-and-see approach to acoustics can be detrimental to the success of the project. Too often, room acoustics presents design challenges which are not adequately addressed in the project documents. It is vitally important that interior acoustics be considered in the design phase, and that acoustical recommendations be incorporated into the finished space. To round out your knowledge of acoustics, go to www.acoustics.com.

THE CONTACTS

PORTLAND OFFICERS & DIRECTORS

President

Cherie McNabb, CSI, CDT.....360-281-1918

President Elect

Dennet Latham, CSI, CCS, AIA503-723-3998

Immediate Past President

Jim Wilson, CSI, CCS, AIA.....503-222-1917

Secretary

Doug Allen, CSI.....360-263-0049

Treasurer

Dennet Latham, CSI, CCS, AIA.....503-423-3998

Executive Director

Jane Phifer, CSI...503-805-2500 or 503- 399-7312
CSI Office - P.O. Box 5116, Salem, OR 97304

Director, Professional 2004-2006

David Roggenkamp, CSI360-573-4545

Director, Professional 2004-2006

Russ Pitkin, PE, CSI.....503-274-5432

Director, Professional 2003-2005

Ray Totten, CSI, CCS, AIA503-635-4425

Director, Industry 2004-2006

Carolyn Miller, CSI, CDT.....503-260-7744

Directory, Industry 2004-2006

Kaye Kloster, CSI503-227-3424

Director, Industry 2003-2005

Denise Carpenter, CSI..... 503-720-3005

COMMITTEE LEADERS

Awards

Denise Carpenter, CSI..... 503-720-3005

By-Laws

Ken Searl, FCSI, CCS.....503-362-3472

Certification

Ray Totten, CSI, CCS, AIA503-635-4425

Editor

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

Education

Jim Wilson, CSI, CCS, AIA.....503-222-1917

Continuing Education

Skip Brown, CSI, CCS.....503-827-0505

Golf Tournament - Co-Chairs

John Armstrong, CSI.....503-579-2477
Erica Bitterman, CSI..... 503-274-2030

Library

Perky Kilbourn, CSI.....503-244-1778

Membership - Co-Chairs

Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400
Pat Murphy, CSI.....503-285-4557

Operations Guide

Ken Searl, FCSI, CCS.....503-362-3472

Orientation

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Products & Services Fair - Co-Chairs

Cornelia Gibson, CSI, CDT.....503-624-7444
Ellen Onstad, CSI, CDT.....503-225-0361

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Jody Moore, CSI, CDT.....503-284-6799
Kaye Kloster, CSI503-227-3424

Publicity

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

Specifiers Share Group & Technical

Fred Herbold, CSI, CCS.....503-297-1382
Isaac Tevet, CSI, AIA.....503-222-1661

Student Affiliate

Rudy Barton.....503-725-3339

Webmaster

Jane Phifer, CSI503-805-2500

Portland Website
www.portlandcsi.org

INSTITUTE DIRECTORS

2004-2007

Tom Dienes, CSI, CCCA

Ph: 541-485-1700 Fax: 541-683-7722
Email: tsdienes@ix.netcom.com
Wildish Standard Paving
PO Box 7428
Eugene, OR 97401

2003-2006

Rick Heiserman, CSI, CCCA, AIA

Ph: 503-245-7100 Fax: 503-245-7710
Email: rickh@amaa.com
Ankrom Moisan Associated Architects
6720 SW Macadam Avenue, Suite 100
Portland, OR 97219

Region Website
www.csinwr.org

REGION COMMITTEES

Academic Liaison

Jeffrey Callahan, CSI, CCCA.....907-786-6425

Awards

John Lape, FSCI, CCS, AIA.....509-624-5600

Certification

Brian Keil, CSI, CCPR206-763-0300

Education

Perry White, CSI, CDT.....888-284-6799x25

Electronic Communications

Rand New, CSI, CDT.....541-688-5594

Membership

Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400

Planning

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

Publications

Bob Kenworthy, FCSI, CCS, CCCA...253-931-4826

Technical

Marc Chavez, RA, CSI, CCS.....206-622-9450

Treasurer & Secretary

Larry Barger, CSI, CCS360-943-4650

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, 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.....541-687-9600

Idaho, Boise, ID (First Tuesday)

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

September 2004

Sun Mon Tue Wed Thu Fri Sat

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		

- 9/7 CSI Board Meeting
- 9/9 CSI Specifiers Share Group Meeting
- 9/14 CSI Chapter Meeting, Construction Site Tour Pioneer Courthouse**
- 9/14 CSI Membership Meeting, Billy Reeds
- 9/23 CSI Specifiers Share Group Meeting

October 2004

Sun Mon Tue Wed Thu Fri Sat

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						

- 10/5 CSI Board Meeting
- 10/7-10/10 NW Region Conference, Hood Canal, WA**
*For Information call:
Skip Angell - 253-588-4587*
- 10/19 CSI Chapter Meeting, (the 3rd Tuesday) Special Architecture Week Presentation - Seattle Library Project**
- 10/14 CSI Specifiers Share Group Meeting
- 10/21 CSI Specifiers Share Group Meeting



Portland Chapter CSI
PO Box 5116
Salem, OR 97304



Knowledge for Creating
and Sustaining
the Built Environment

The Predicator

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Portland, Oregon Chapter — The Construction Specifications Institute

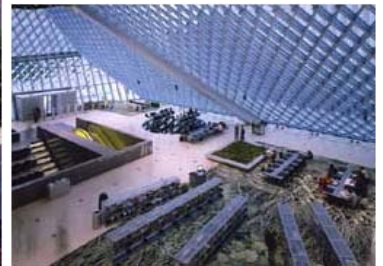
C.S.I. Portland Chapter
Phone: (503) 805-2500
Fax: (503) 587-0337
E-Mail: jane@portlandcsi.org
Web site: www.csinet.org

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CSI Celebrates Architecture Week Seattle Central Library

... is this a Koolhaas, or what?



Tuesday, October 19, 2004 (3rd Tuesday)

Doug Winn, AIA, CSI and Dale Stenning from Hoffman Construction Company discuss the challenges of building this exciting project, designed by award-winning Dutch Architect, Rem Koolhaas' Office of Metropolitan Architecture (OMA) in a joint venture with LMN Architects, Seattle.

One of the challenges for this one-of-a-kind project was integrating construction efficiencies into the project without compromising its revolutionary design. The library is composed of five layers, with each layer representing a basic library function. Instead of being stacked directly on top of one another, the layers have been repositioned off center to provide better views, to create airy spaces, and to allow more natural light into the building. The angular 11-story, 427,000-sf structure has cantilevered floors and is encased by a latticework of glass and aluminum.

The library is much more than a repository for the 1.45 million books it was designed to accommodate. It's a high technology, user-friendly building, featuring comprehensive services and meeting spaces for the community. It features unique sloping columns, herkin' embeds, a "books spiral" and it contains enough concrete, steel, glass, and aluminum mullions to cover several wet and rainy football fields!

Join us on October 19th (**the third Tuesday this month**) and hear what these two veterans from the Experience Music Project learned this time.

Cost: \$30.00 per person -- prepaid reservations only—by October 15, 2004.

Please see the insert for address, directions and easy registration

PRESIDENT'S MESSAGE

By Cherie McNabb, CSI, CDT



I hope that your October is running smoothly.

The other day I was reading an article in the Construction Specifier. The article was titled Choosing Vapor Retarders and Concrete Mixtures written by: Neal S. Berke, PhD, Timothy A. Durning, PE and Lianfang Li.

I am going to take some points from this article. If you need more detailed information please refer to the CSI National website or look in your September Construction Specifier magazine.

I represent the Forbo Linoleum company and have had some experiences with this exact topic. I wanted to point out some of the challenges we have in the floorcovering industry regarding moisture in concrete. Many of these challenges that I have experienced can be avoided if everyone involved is more aware.

When we are dealing with slab-on-grade design, vapor retarders and concrete work hand in hand. Paying attention to the mixture and working with the correct vapor barrier. We all benefit from this. All the way through the construction phase. Wood, carpeting, terrazzo, VCT, seamless resilient flooring, linoleum, and urethanes or epoxy coatings are highly vulnerable to damage from dampness. Signs of excess moisture in the floor slab include warping, staining, mold growth, adhesion loss, and bubbling – these symptoms normally require complete flooring replacement and remedial work to seal the slab. Almost all flooring manufacturers have gone from a solvent based adhesive to a water-based adhesive which also plays a role in moisture failure.

A new generation of integrally bonded membranes achieve the desired continuity through an adhesive bond to the concrete without additional labor or adhesives. These vapor retarders combine an advanced, low-permeance carrier membrane with proprietary adhesive layers. These do not rely on positive pressure from the ground to remain effective. Instead, they remain in direct contact with the slab to resist vapor drive, even where ground settlement occurs or where underslab voids are needed to accommodate expansive soils. Integrally bonded vapor retarders meet or exceed the Class A requirements, as defined by ASTM E 1745. In addition to this they should have the following qualities:

- ~ Puncture resistance of at least 2200g
- ~ Tensile strength of at least 0.8 kg/mm

- ~ Water vapor permeance no greater than 0.3 Perms
- ~ Concrete adhesion of 4 pli or greater (ASTM D 903)

Choosing the proper vapor retarder is only the beginning of the process. The concrete mix design and concrete reinforcing also affects the overall moisture protection. These also handle some common flooring issues, such as shrinkage, curling, and cracking.

To produce workable concrete, significantly more water is incorporated into the mix than is traditionally required for cement hydration purposes. Some of this additional water is squeezed out of the concrete mass as 'bleed water' due to solid components settling prior to setting. The remaining additional water, however, lingers in the concrete pores and slowly evaporates over time. This excess moisture causes problems when floor coverings are applied too soon, causing the concrete to shrink. Pore water evaporation is more intense during concrete's early age. Standard equations predict normal, moist, cured concrete undergoes 44% of its ultimate shrinkage within the first 28 days, 72% within 90 days and 91% within the first year. If this shrinkage is restrained, tensile stresses build up, and can quickly exceed the material's tensile capacity – this results in cracking.

We also know that the drying shrinkage does not occur evenly through the slab's depth. This causes the slab to curl, just as a wet sponge left on the counter will initially curl up at the edges as it dries.

In concrete, it is the cement paste (cement and water) that contains virtually all the porosity, and it is therefore this paste that shrinks. The aggregate internally restrains this shrinkage. So it is important to select the best quality local materials as the starting point in developing the proper mix. The three keys to achieving this are:

- ~ Well-graded aggregates
- ~ The largest coarse aggregate top size consistent with the job requirements.
- ~ Selection of mid-range water-reducing (MRWR) or high range water-reducing (HRWR) admixtures to minimize water requirements, while still providing proper workability.

There are also shrinkage reducing admixture (SRA) that are formulated to reduce the mix water's surface tension. The use of SRA in concrete mixes provides multiple benefits-less shrinkage means considerable improvements in cracking/curling levels, and also reduces the total number of joints, as it allows working with extended spacing.

There is another article that the Specifier Share Group of the Portland Chapter put together and will be on our Portland CSI website soon.

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

By: Dave Shelman, CSI, CCS



The following article, by Dennis Hall, FCSI, AIA, CCS, CCCA, appeared in the September edition of "Southern Fried Architect". It is reprinted here, with his permission, with the idea of keeping a conversation going in the Portland/NW design and construction world about the most effective construction communication. Like many, I am a skeptic of much of what is promoted in the name of "progress" (is your use of the telephone easier now than, say 10 years ago?) but I am well aware of the complexities we face in getting projects built. Some would say that CSI is going down paths they shouldn't (MF 04, OmniClass, UDS, etc.) and others would commend them for their vision. I can see both sides, but I do think we all need to be engaged in the discussion about how and what and to whom our documents communicate.

Integrated Construction Information Theory

Over the last twenty-five years there have been tremendous changes in the profession of architecture and the process of project delivery. From the past to the present, the days of drawing with mechanical pencils and T-squares to 3D CAD, from when specification tools were a red pencil, scissors, and tape to the use of electronic databases hyperlinked to standard details, and from when architectural design research meant thumbing old copies of *Architectural Record* to today's electronic searches in libraries all over the world, done via the Internet from your home computer, we can see that a lot has happened since I first graduated from architectural school in North Carolina way back when. Do you ever wonder what changes the next twenty-five years will bring to the profession or how we might be preparing now to meet those changes?

In the late 1960s, according to the movie *The Graduate*, the future was predicted in one word, "plastics." And today, in this complex world we've created, I believe it takes three words to predict the future of the construction industry: "integrated construction information." Based on this belief, I have conceived a theory for linking construction information I call "Integrated Construction Information Theory."

Integrated Construction Information is based on three principles:

- 1) Integrated construction information must be organized by use of a common Construction Information Language
- 2) Integrated construction information must address the life cycle of the facility
- 3) Integrated construction information can be displayed in multiple report formats

The creation and adoption of a common construction information language is at the heart of the Integrated Construction Information Theory. Without a common language we are bound to repeat the past and experience our own [version] of the 'Tower of Babel' with loss of interoperability. I believe that OmniClass can become this language, but it still has a long way to go.

Construction information is no longer about just the construction of the facility, but includes the maintenance of the facility and supporting facilities. The bigger view of this information requires manufacturers, contractors, designers, and owners to all work together and quit just looking at our small part of the puzzle.

Finally, this construction information must be able to be viewed in multiple formats, including text formats such as specifications or materials lists, and graphic formats such as drawings, schedules and diagrams. The user and use will dictate the format that is appropriate, not the data.

By this point in this article your eyes should be starting to glaze over, so let me leave you with the words of Steve Jobs of Apple, when asked about the future of computerization: "The future is going to be cool." We will have access to useful information at the touch of a button, which will let us do our jobs faster, better and cheaper. Okay, two out of three ain't bad.

But to get there, it's going to take an investment of time and money. We all need to start investing in our future and the future of our industry. Get involved!

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 (fredh@serapdx.com).

ED LOY CARTOON

PERKY'S NOTES

By: Perky Kilbourn, CSI



Perky's First Note:

Mary Alice Hutchins, FCSI, FAIA, Scholarship Awards were given at the Willamette Valley CSI Meeting on June 24, 2004 by Ellen Onstad, CSI, CDT.

Mary Rasure received the Mary Alice Hutchins, FCSI, FAIA - CSI Scholarship of \$1000 and a signed copy of One Woman's

Unique Architectural Journey: The Life and Times of Mary Alice Hutchins by J. P. Kilbourn and friends in CSI and AIA.

Keara Watson received the Mary Alice Hutchins FCSI, FAIA - AIA Scholarship of \$1000 and a signed copy of One Woman's Unique Architectural Journey: The Life and Times of Mary Alice Hutchins.

Please contact Perky Kilbourn if you would like a copy of One Woman's Unique Architectural Journey: The Life and Times of Mary Alice Hutchins.

Year AIA \$1000 Scholarship Winner - CSI \$1000 Scholarship Winner

2000 Adrienne Hill -	Wendy Turner
2001 Anne Darling Davis -	Maria Cristina Bontia
2002 Teena Agarwal -	Anne Elizabeth Deutsch
2003 Belinda Borelli -	Tara Hanby
2004 Keara Watson -	Mary Rasure

Perky's Second Note:

On page 13 of the August 2004 issue of "CSI News Digest" was an article entitled:

"BS by KS" Ends After 29 Years
Member Wrote More than 300 Columns

I (Perky) have collected all of Searl's columns and they are in a notebook. Searl's first column was written for the July, 1974 issue of The Predicator. Searl was the incoming president of Portland Chapter of CSI. The column's caption was: Take Me to Your Leader - President Personal Column - Ken Searl C.S.I.

Searl's column:

In the past information regarding just what CSI is and does, is not given in sufficient quantity to new members. In the future as most meetings a brief discussion will be given regarding CSI aims and other education information. . . Keep watching this column each month for more information on upcoming developments your new officers are going to lay on you.

Margie Largent followed Searl as President of Portland Chapter of CSI. In the June, 1976 issue of The Predicator, Searl wrote as follows:

. . . Our new chapter president, Margie Largent has asked me to continue writing a monthly column. I have suggested that we call it Ken's Kolumn, or something else that fits a Non-GBS type writer (George Bernard Shaw). If anyone out there comes up with a better name for this column please let me know and if your name for the column is used, I will personally take you to lunch. . . .

In the September, 1976 issue of The Predicator Searl's picture appears with the following discussion.

B.S. by K.S.

This column was scheduled to be called "Ken's Kolumn", but somewhere along the way it has been changed to "BS from KS" . (Wilma and my employer voted so it was two against one.) Now I want to make one thing perfectly clear: It doesn't stand for what you may have been thinking. "BS" stands for basic specs or basic sense. Although some of you out there claim I am a big bull shipper, just put such thoughts out of your mind. . .

Skipping ahead to July & August, 1993 issue of The Predicator, there is a picture of Larry Brown and Ken Searl. In the September, 1993 issue of The Predicator Searl writes:

As some of you may already know there will soon be an opening for someone to write a column in place of my BS Column for The Predicator. I am retiring on November 1, 1993. My wife says October 31st. . . .

Searl continued to write his column even after retiring and being "roasted" in January, 1994. I think the time has finally come when Searl is serious about no longer writing a column. I searched in vain for a "BS by KS" column in the September, 2004 issue of The Predicator. There wasn't one!

A special "thanks" to Margie Largent who asked Ken Searl to continue writing his column after Ken's term as President of Portland Chapter CSI was completed.

Perky's Third Note

In the discussion of "BS by KS" there is mention of Larry Brown. Larry Brown was an Institute Vice President of CSI as well as a Fellow of CSI. He worked for Owens-Corning Fiberglas for 25 years. After that he owned Oregon Insulation Co. for 13 years.

Larry Brown was an individual who made a difference. I valued his friendship and he contributed to my being active in CSI. He was friendly, supportive and always had a smile. Lee and I were able to visit him a couple of times this summer before he died. It sounds sort of corny but "Larry Brown will be missed."

FORD GRAPHICS - STORIES BY PORTLAND CHAPTER OFFICERS & DIRECTORS

By: Kaye Kloster, CSI, Ford Graphics



As vice president of sales at Ford Graphics I have developed my own 30-second commercial to quickly and efficiently answer the question "Who do you work for?" My response is "Ford Graphics provides digital printing solutions for the design and construction industry." Although my statement flows quite freely it still causes confused looks. So I break it down a little further and say "We used to be blueprinters but the blueprinting process doesn't exist in Portland anymore." A relieved look usually appears and a true conversation can ensue.

I have provided reprographic consulting services to architects, engineers and general contractors for over 9 years at Ford Graphics. I began my career as a reprographic consultant and through the years have been promoted to sales director and in February 2004 became vice president sales. Previous to Ford Graphics, I worked in the marketing departments at IDC and HDR Engineering writing proposals and preparing marketing materials.

I love being a part of the design and construction community in Oregon and Southwest Washington. To know what every hole in the ground is going to be, who designed it and some of the trials and tribulations of making it happen thoroughly intrigues me.

In 1995 when I joined Ford Graphics our shop used analog copying methods. The best description of that "technology" is 7

burley guys behind diazo machines feeding vellum and diazo paper into a light bulb and ammonia process. Not very technological!

Plotting services were available through modems and software. I became very familiar with trouble shooting the software installation procedures and typing in modem initialization strings. Vellums were created from the plots and blueprints from the vellums. Competition between reprographic firms boiled down to having the lowest price per square foot for plans. However I could see the future was going to turn blueprinters into hardware and software solution providers.

Today Ford Graphics provides digital printing solutions to the design and construction industry. We receive 20 percent of our orders online through PlanWell, our document management system, and EWO's (electronic work orders). Eighty-five percent of our plan reproduction consists of scanning in rolls of original drawings printed in our client's offices. The percentage of electronic originals for plan reproduction continues to increase slowly. The proofing and signature processes determine the pace of that transition. Sales consultants must have working knowledge of computer networks, LAN's, WAN's, FTP sites, TIFF, PDF, DWG and PLT file formats as well as knowing what design development means versus construction documents versus construction administration.

Technology, like so many other industries, and how it grows, shifts and changes has provided me a challenging work environment with unlimited opportunities for learning. What could be better?

CSI NEWS RELEASES

Anticipating the full publication's release, a number of major public and private construction organizations, including the U.S. Army Corps of Engineers (USACE), the U.S. Navy Facilities Engineering Command (NAVFAC), the Sweets construction products catalog, and Reed Construction Data's Architect's First Source, have already decided they will make the transition to the groundbreaking 2004 edition of MasterFormat™, the Construction Specifications Institute (CSI) announced today. Also, one of the world's largest professional liability insurance underwriters, Victor O. Schinnerer & Company, Inc., has found the enhancements in MasterFormat's new edition "are needed, are logical, and are beneficial to architects and engineers."

You also can access/download the release -- and see other CSI news releases -- by clicking on this link:

www.csinet.org/pr/adoptingmasterformat

The Construction Specifications Institute (CSI) and Building Systems Design, Inc. (BSD) announced recently the release of a new version of BSD SpecLink, an innovative software product for developing specifications for nonresidential building design and construction projects. It now enables users to create performance-based, short form, and prescriptive construction specifications for any project delivery method. And with just one mouse-click, the new version can at any time rearrange a project's specifications per the 2004 or 1995 editions of the MasterFormat organizational standard.

You also can access the release, and see other CSI news releases, by clicking on this link:

www.csinet.org/pr/newspeclink

CSI GOLF 2004 RESULTS

By: Erica Bitterman, CSI

This year's tournament was held at the Lewis River Golf Course. They were very accommodating and ran an excellent tournament. We all had a wonderful time and we will be returning next year.

Special thanks and appreciation goes to our Major Sponsors: Precision Images, Hanset Stainless, Miller Paint, DeaMor Associates and STO Corp. We would also like to thank all the Hole, LD and KP Sponsors. Without your support we would not be able to produce a quality tournament: Benjamin Moore Paints, Atlas Supply, NW Natural Gas, Essex Industries, Forbo Industries, Regional NW Council of Carpenters, Golf Green Fore U, Kawneer, Oldcastle Glass, Willamette Print & Blue Print, Ford Graphics, Compass Concepts Inc, Precision Countertops, McGraw-Hill Construction Dodge, Mountain Glass, Ingersoll-Rand, Benson Industries, Professional Roof Consultants, Rodda Paint, Walsh Construction, Architextures, Western Construction Services, ISG Resources, Masonry Institute of Oregon, PPG, Cabot, 3M, Skanska USA, T & A Supply and Zinsser.

This year's winner in the "A" flight was the team from Precision Countertops, "B" flight went to the David J Stewart team and the "C" flight was taken by the Skanska USA team.

As mentioned above we will be returning next year to the Lewis River course on August 5th. Mark your calendars and sign up early as we had a full field this year and had to turn away players. Information should be coming out to you by the 1st of the year, so watch your emails and mail.



Tom Coffey
Showing us
his golf
swing.

Carolyn Miller
and Rick
Heiserman
enjoying the
day.



ENVIRONMENTALLY PREFERABLE PRODUCT STANDARD: A PRIMER FOR ARCHITECTS

By Caren Klosterman, Environmental Market Specialist, LEED AP,

Introduction

Construction Specifiers play an increased role in reducing the environmental impact of the building industry by specifying products that have a lesser impact on the environment. A relatively new standard, Environmentally Preferable Products (EPP), provides a more comprehensive evaluation of the environmental impact of products that you recommend.

Policy Foundation

A presidential order and EPA guidelines have driven the EPP standard, developed by Scientific Certification Systems (SCS) - a leader in the certification of environmental claims.

In 1998, President Clinton directed federal agencies to practice Environmentally Preferable Purchasing by using products and services "that have a lesser or reduced effect on human health and the environment when compared to other products that serve the same purpose." Many states, municipalities, and enlightened private building managers are following suit.

The EPA's direction for EPP includes:

- consider all environmental attributes over the product's life-cycle
- look at product performance as an important considerations
- minimize waste and pollution
- make EPP considerations a routine practice

To ensure thoroughness and impartiality, SCS-developed EPP standards are peer-reviewed by industry, science and environmental experts.

Product Example: Criteria for Carpet Face Fiber

You may be involved in selection of carpet, which can cover many thousands of square yards. The manufacture, shipping and disposal of that carpet impacts the environment in many ways. The EPP criteria for carpet face fiber qualifications include:

- Superior Product Performance: Keeping a product in use for a longer time is critical. Use fibers that provide soil resistance technology and resist crushing and matting. Look for manufacturers that have a performance-testing program.
- Lower total environmental impact of manufacturing: Measure environmental impact in these categories – natural resource use, global warming emissions and other air emissions, land emissions, water use, safety and health concerns, and value recovery.
- Use significantly more Green Energy: Wind-generated and solar power are good examples
- Significant Efforts toward protecting Health, Safety and the Environment
- End-of-life Responsibility: Reclaim old carpet, diverting it from landfills

The Importance of Certification

Manufacturers continuously unleash a barrage of environmental product claims. Construction Specifiers cannot afford the time it takes to sift through this deluge. How do you determine what is relevant, accurate, and up-to-date?

One way--look for certification to a standard. SCS does not maintain exclusive use of the term "environmentally preferable product." The only way to ensure that the product you are specifying has met the rigorous EPP criteria is to look for the SCS label.

For Additional Information

Please visit the following websites for more information about Environmentally Preferable Products:

www.scs-certified.com, epa.gov, antron.invista.com

THE CONTACTS

PORTLAND OFFICERS & DIRECTORS

President

Cherie McNabb, CSI, CDT.....360-281-1918

President Elect

Dennet Latham, CSI, CCS, AIA503-723-3998

Immediate Past President

Jim Wilson, CSI, CCS, AIA.....503-222-1917

Secretary

Doug Allen, CSI.....360-263-0049

Treasurer

Dennet Latham, CSI, CCS, AIA.....503-423-3998

Executive Director

Jane Phifer, CSI...503-805-2500 or 503- 399-7312
CSI Office - P.O. Box 5116, Salem, OR 97304

Director, Professional 2004-2006

David Roggenkamp, CSI360-573-4545

Director, Professional 2004-2006

Russ Pitkin, PE, CSI.....503-274-5432

Director, Professional 2003-2005

Ray Totten, CSI, CCS, AIA503-635-4425

Director, Industry 2004-2006

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Directory, Industry 2004-2006

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Director, Industry 2003-2005

Denise Carpenter, CSI..... 503-720-3005

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Awards

Denise Carpenter, CSI..... 503-720-3005

By-Laws

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Certification

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Specifiers Share Group & Technical

Fred Herbold, CSI, CCS.....503-297-1382
Isaac Tevet, CSI, AIA.....503-222-1661

Student Affiliate

Rudy Barton.....503-725-3339

Webmaster

Jane Phifer, CSI503-805-2500

Portland Website
www.portlandcsi.org

INSTITUTE DIRECTORS

2004-2007

Tom Dienes, CSI, CCCA

Ph: 541-485-1700 Fax: 541-683-7722
Email: tsdienes@ix.netcom.com
Wildish Standard Paving
PO Box 7428
Eugene, OR 97401

2003-2006

Rick Heiserman, CSI, CCCA, AIA

Ph: 503-245-7100 Fax: 503-245-7710
Email: rickh@amaa.com
Ankrom Moisan Associated Architects
6720 SW Macadam Avenue, Suite 100
Portland, OR 97219

Region Website
www.csinwr.org

REGION COMMITTEES

Academic Liaison

Jeffrey Callahan, CSI, CCCA.....907-786-6425

Awards

John Lape, FSCI, CCS, AIA.....509-624-5600

Certification

Brian Keil, CSI, CCPR206-763-0300

Education

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Rand New, CSI, CDT.....541-688-5594

Membership

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Publications

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Technical

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Treasurer & Secretary

Larry Barger, CSI, CCS360-943-4650

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, 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.....541-687-9600

Idaho, Boise, ID (First Tuesday)

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

October 2004

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						

- 10/5 CSI Board Meeting
10/7-10/10 NW Region Conference, Hood Canal, WA
*For Information call:
 Skip Angell - 253-588-4587*
- 10/11 CSI Membership meeting, Billy Reeds
 10/ 14 CSI Specifiers Share Group Meeting
10/19 CSI Chapter Meeting, (the 3rd Tuesday)
*Special Architecture Week Presentation
 Seattle Library Project*
- 10/21 CSI Specifiers Share Group Meeting
 10/26 CSI Program Meeting, 7AM Cadillac Café

November 2004

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				

- 11/2 CSI Board Meeting
 11/8 CSI Membership Meeting, Billy Reeds
11/9 CSI Chapter Meeting, New Masterformat:
Making a successful transition
- 11/11 CSI Specifiers Share Group Meeting
 11/25 CSI Specifiers Share Group Meeting
 11/30 CSI Program Meeting, 7AM Cadillac Cafe



Portland Chapter CSI
 PO Box 5116
 Salem, OR 97304



Knowledge for Creating
and Sustaining
the Built Environment

The Predicator

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Portland, Oregon Chapter — The Construction Specifications Institute

C.S.I. Portland Chapter
Phone: (503) 805-2500
Fax: (503) 587-0337
E-Mail: jane@portlandcsi.org
Web site: www.csinet.org

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CSI Portland Chapter Presents a Panel Discussion

MasterFormat 2004 is here. Are you ready? Tuesday, November 9, 2004

For several years, we have been hearing and reading about big changes to the construction industry's premier information organization tool: **MasterFormat**. With any change comes questions and resistance, and this one is no exception. Architects, contractors, product representatives and their related manufacturers will all be affected.

The question of *WHEN* has been answered. MasterFormat 2004 has been released. Tuesday, November 9, our panel of experts will discuss and answer your other questions.

Rick Heiserman, CSI, CCCA, AIA, Ankrom Moisan Associated Architects and the NW Region Institute Director will present an overview of MasterFormat 2004 changes and will offer tips on making the transition.

Robert Dean, AIA, CSI, CCS, and President of Building Systems Design, Inc., a national software company that provides master specifications to architectural and engineering companies, will show how their *Speclink* product is addressing the changes and what they are doing to assist users through the revision.

Steve Watt, Estimating Product Director for Timberline Software Corporation - A Best Software Company, a leading company that produces data base and cost estimating software for contractors and subcontractors, will discuss how Timberline has dealt with the concerns of contractors who need to make the transition and maintain historic data.

Originally published in 1961 as the CSI Format for Construction Specifications, CSI developed **MasterFormat** and the 2004 update is considered the most significant revision over those forty years. Designed in response to changes in the construction industry, it addresses new materials and processes, all types of construction, facilitates increased database uses, addresses project life-cycle issues and provides flexibility for future use.

Join us **November 9**, and get ready to make this change work for you and your firm.

The Princeton Ballroom - 614 SW 11th, Portland, OR
Dinner & Program: \$30 per person, preregistered by November 5
Buy a table of eight for \$230

Late registrations & walk-ins \$40, if space is available.

5:30 meet your Colleagues, 6:30 Dinner catered by Jake's, 7:30 Program

Please see enclosed Event Registration Form for registration.

1 LU will be available, sign up at the registration desk.

PRESIDENT'S MESSAGE

By Cherie McNabb, CSI, CDT



Welcome to November.

It is amazing how quickly time seems to be flying by. Before we know it the year will be over.

I want to start out by sharing an experience that I was able to have again this year. I and five other women went on a 47 foot catamaran trip in the British Virgin Islands for ten days.



It was just a captain and the six of us were the crew. We enjoyed the view of the area plus had the pleasure to sail the Catamaran too. We sailed to a different island every day. The BVI is a part of the country you all should experience. The islands are very remote and so wonderfully relaxing. I tell you it is pure paradise.



This month Portland has the honor of hosting the US Green Building Council's Greenbuild International Conference and Expo at the Oregon Convention Center. This is the nation's largest environmental building conference. Greenbuild will bring information on the latest advancements in green building design, construction, project financing and building management. This is all guided by the desire to achieve recognition in the USGBC's LEED program.

Portland was chosen to host the Greenbuild conference because of its recognized leadership in green building design and construction. Portland has the most LEED-registered buildings in the country and Oregon leads the nation in LEED buildings per capita. Of this we should be proud.

This event will be held on November 10-12. There will be more than 450 green companies displaying products and services in the conference expo hall.

My company, Forbo, will be included in the companies displaying.

You can always check out the website for more information on the seminars, tours and exhibitors that will be displaying. This website is www.greenbuildexpo.org

Forbo is also included in a few seminars. Because we are an exhibitor and presenter for seminars I have the opportunity to give away 50 Free VIP passes for November 10 – 11. These passes will get you into the expo at the Oregon Convention Center. Please give me a call or email me if you are interested in getting a few of these tickets.

Cherie 360-281-1918 or email: cheriemcnabb@comcast.net
I would be happy to get them to you by mail or hand deliver them.

NEW MEMBER ORIENTATION

November 9th, 2004, 5:00 PM, Princeton Ballroom.

New members are invited to join us in an informal group discussion about CSI, who we are, where we have been and where we are headed. This is your chance to meet the Board Members of your chapter. Wine and cheese will be served.

This event immediately precedes the regular dinner meeting. Contact Jane Phifer, CSI Office for more information and to secure your spot.

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

By: Dave Shelman, CSI, CCS



Specifications U.

It has often been observed that a lot of what an architect actually does as a professional is not taught in schools of Architecture. Business management, marketing strategies, representing Owners in land use decisions, writing reports and meeting notes, are a few examples. One or more of these skills may be included in some professional degree programs

but it would be rare to find all of them. It would be rarer still to find a school that included a bonafide class in specification writing. Yet this is a vital part of normal architectural services—project documentation for construction. So, how do specification writers learn how to write specs? How is this skill transferred to others and where might CSI fit into this gap?

It is safe to say that, like all the other “tasks” mentioned above, specifications are produced by individuals who have learned this skill “on the job.” The “specifier” may be a project manager or a principal who has picked up a lot of “wisdom” over the years. Or he/she may be a project architect who has found that writing the project specifications is the best way to achieve a well-coordinated set of documents. In some offices the task of writing specs is the responsibility of many individuals and in others there may be a single person that “specializes” and becomes the office “spec writer.” However this configuration evolves, it is probably the outcome of circumstances and need rather than part of a long-range office plan. For many years, the office I am in “farmed” the specifications out to consultants before realizing that there were advantages to doing them in house. At that point there also needed to be a staff member (that would be me) foolish, ahh, willing enough to take on the job. With that decision we put ourselves on a steep learning curve, which we are still climbing today, five years later.

There are many good resources for the novice specwriter, but none more essential than the Construction Specifications Institute. CSI’s Manual of Practice* provided me with a clear understanding of the overall document production process and contractual relationships between the construction parties. I continue to refer to it for clarification and often refer others to it for their better understanding of some aspect of professional practice. But, by far the best resource for me has been our local chapter Specifiers Share Group (SSG). That is where I have been able to meet veteran spec writers, to listen to their

experiences and to seek their advice. I don’t know how I would be doing what I am today without that group. Yet the SSG has one undeniable demographic characteristic (besides a male majority): we are all getting older. So, it is natural to wonder about the future of specification writing in our community. Will Portland firms be able to transfer these skills and knowledge to the next generation?

Fortunately, there are a growing number of firms who have younger people in training and many are getting involved in the SSG. This has got me thinking about some opportunities for our Chapter. Perhaps we could develop some kind of a program of training specification writers that would augment the mentor relationships already existing in some offices and give a means for other offices to “grow” interested staff into competent specification professionals. This could be thought of as modest but serious “Specifications University.” Before thinking “not another program!” remember that we have already had classes for candidates for the Construction Documents Technologist for a number of years. We have some really good teachers and perhaps a once-a-month class could be started, with rotating staff to cover the many topics that specification writing entails. A few examples:

- Specification language (grammar)
- Contract documents and the law
- How contractors bid drawings and specifications
- Describing product “salient features”
- Coordinating the Owner and consultants in assembling a Project Manual
- Creating office masters
- Getting the most out of electronic spec software and word processing programs
- Performance, prescriptive and proprietary specifications
- Working effectively with Product Representatives
- Quality control: Checking documents before bid.

Food for thought.....

*A revised edition under the new title “Project Resource Manual” has been issued by CSI and McGraw-Hill.

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 (fherbold@sera.com).

PERKY'S NOTES

By: Perky Kilbourn, CSI



The one neat thing about only directing Public Service Laboratories is that I have time to sort into categories the many articles and references which I had collected while directing Public Service Laboratories and Consulting Clinical and Microbiological Laboratory. Two of the

categories are sort of related so will discuss them in these notes since they may not be unique to science and medicine.

Title: "Flawed study raises concerns about practices"

Article on page A3 of The Oregonian March 17, 1994. The subtitle for this article was *"The discovery of falsified data in a major breast cancer study prompts questions about the quality of medical research"*. Quoting from the article a . . . Dr. Roger Poisson, falsified data on more than 100 of the 1,511 patients he enrolled in his part of 22 studies from 1975 to 1991.

What was the "falsified data"?

Apparently, there had to be a certain length of time between when the breast cancer was diagnosed and surgery was performed. Unfortunately, it took some women too long to make up their minds to have the surgery done and thus they were ineligible to be included in the study.

Rather than discard the patient's data, Dr. Poisson changed some of the dates so the data could be used. Unfortunately, Dr. Poisson was not a good "changer of data dates" so the discrepancy was noted by staff members in Pittsburgh.

There was one problem, Dr. Poisson had which I could really relate to. Patients are suppose to sign the "Informed Consent Form" before they start on the study. The first thing you always do when you start someone on a study is to get a signed "Informed Consent Form". In my case sometimes the patients wanted to think about it so I gave them the "Informed Consent Form" to take home and bring back with the next sputum specimen for bacterial culture. In my case, the patient was going to bring in a sputum specimen for bacterial culture anyway and I just wanted to use the data from the sputum specimen for bacterial culture for research purposes as well as to help the patient. I would continue to remind them as they brought back more sputum specimens until they finally signed the "Informed Consent Form". Sometimes this would be a month or so after the specimens had been collected. If you really wanted to include the patient's data in the study, what do you do? Change the date on the "Informed Consent Form"? Make a note on another sheet of paper that there was a problem?

"Plague Researcher Recants Account about Fate of Vials" by David Malakoff in October 24, 2003 issue of SCIENCE. You might remember the interview with Thomas Butler on *60 Minutes* on October, 2003. Apparently Butler couldn't find some vials of Plague and was concerned they might have been destroyed by accident. Also he was charged with improperly labeling or packaging bacteria vials that he carried in his luggage into the United States from Tanzania. His conviction was of defrauding Texas Tech by cutting secret "shadow" contracts with two pharmaceutical companies. This meant that Texas Tech received half the money of the grant and Butler received the other half directly into his bank account. Butler felt that what he was doing was not breaking the law. The Courts disagreed and he ended up spending some time in jail.

Again it all started out with failing to file patients' consent forms, and ordering tests before obtaining their consent. Unfortunately Butler was charged with billing the patients instead of the study's sponsors and putting funds in a personal bank account rather than have the funds go through the University. This last charge is the most serious one and was Butler's undoing because the University decided to "get him" and did. Again, I can relate to some of his problem. I have received research grants and the paper work required to get paid for expenses for doing the research sometimes take longer than the research. Often I put the money in an account where I can get the money easily and quickly as needed. I still need to keep track of expenditure but it is much easier than going through a large organization like a University to get paid for small items.

I can relate to the problems of transporting of plague vials. How do you transport pathogens? I sometimes have had to transport pathogens. Since I don't drive I have done it on Tri-Met Buses. You ask "How?" I say "Very carefully".

Lee says I should relate these two topics to CSI and ethics. I can because of the comments which were made with regard J. E. Dunn's work on the Pioneer Courthouse remodel. When people really care about what they are doing they will do a good job.

In MEMORIAM

From the Oregonian, Monday, October 18, 2004

Alice Coggins, CSI, AIA

Alice Maude Coggins died Oct. 3, 2004, at age 67. Miss Coggins was born March 22, 1937, in New York City. She moved to Portland and graduated from Lincoln High School. She also graduated from the Massachusetts Institute of Technology, where she later taught. She was an architect with her own firm, and she returned to Portland in 1992 from Cambridge, Mass.

Survivors include her brother, George A.C.; and sister, Mary Ann Coggins Kaza.

Remembrances to charity.

Lee notes Alice joined AIA in 1982 in another city; she joined CSI and Portland Chapter in 1993. The website of the Oregon Board of Architect Examiners shows her license to practice in Oregon was issued in 1995.

Based on material published in The Oregonian on 9/16/2004, with additions by Lee Kilbourn

Andrew B. "Andy" Olson, CSI, Member Emeritus

Andrew B. "Andy" Olson died in Gresham on September 12, 2004 at the age of 84.

He was born on August 27, 1920 in Portland. Andy grew up in Portland and graduated from Benson High School. After graduating, Andy enlisted in the Army Air Corps and served his country during WWII. He was Honorably Discharged on November 10, 1945 with the rank of Sergeant. After returning home to Portland, Andy enrolled at the U of O, studying architecture.

Andy's career spanned over 50 years. He worked for several large firms in Portland, including Skidmore, Owings and Merrill. He joined CSI in 1968 and was a Certified Construction Specifier. During the last 15 years of his career, Andy worked for Portland Public Schools as a Specifications Writer for their buildings, retiring in 1990. Andy was an avid golfer.

Andy led the Portland Chapter committee responsible for the "Green Sheet" Guide Specification for Elevators published in The Construction Specifier in 1968. He wrote several articles on Specifications Language for The Predicator in the late '70s and early '80s (Lee's favorite topic). His last major story was titled "A More Readable UBC" published in the July 1993 issue of The Construction Specifier.

He is survived by his wife, Barbara of Gresham, OR, and his two children: Thomas A. Olson of Riverdale NY, and Kimberly Kline of Aloha OR.

By Relta M. Gray CSI Emeritus

Robert H. Isles, CSI, Emeritus



Bob Isles, loveable curmudgeon that he was, prone to try and keep everyone on the right path according to his philosophy, gave up the good fight on August 28 and slipped away in his sleep. Because Rob, his eldest son, was in the hospital at the time, fighting for his life against viral meningitis, he was not told of his father's death until after his release from the hospital. The family elected to have a private service for Bob, so this may be the first knowledge of his passing that many friends and colleagues have.

Bob was born in Chicago but came West early in life. He joined the US Marine

Corps, serving in Korea, where he was awarded service medals. He retired as a Sergeant in the Corps, coming back to Portland to be near his mother.

He met Janice, his wife, in Portland, and they were married in 1957. He is survived by Jan, his two sons Rob and David, and two grandsons, Christopher and Patrick, all of Portland. He loved to brag a bit about his grandsons.

Bob's work life centered around the building industry where he performed inspections, was a manufacturer's representative, and in later years, was a consultant.

In the 1970s he joined the Portland Chapter CSI, and was active in that chapter until the 1980s, when he came to Seattle and affiliated with the Puget Sound Chapter.

Bob was in and out of committee assignments for a number of years until he found his true interest in working with students, helping to establish scholarships and student memberships. He was an advocate and friend to all the students. Even more, he was instrumental in raising funds for the scholarships, especially through contacts with companies within the industry.

Because the scholarships are given to students wishing to pursue a career in the design/build professions, many have found positions (some with CSI firms) and many have maintained memberships in the organization.

Bob was their greatest cheerleader. All of them, from the first to the most recent appreciated his interest and friendship. They would all say "thank you" many times over to Bob, for his support, his expectations, and for the push he gave them toward working for their own success. His distinguished service to the chapter was recognized in 2001 when he was presented with the Hugh S. Hallet Award.

Bob's outgoing presence will be missed at chapter meetings, Friday noon gatherings, special events, as well as on the phone and in person. He never missed an opportunity to have his "say," and for whatever our personal reasons may be, he will never be forgotten.

The Puget Sound Chapter held a wake for Bob in September, with bagpiper.

Lee Kilbourn notes grandson Chris is a Student Member of Portland Chapter.

CSI SEPTEMBER MEETING RECAP

By: Perky Kilbourn, CSI

Pioneer Court House was the CSI 2004 Fall Construction Site Tour.

There were 8 "Stops" with 6-7 minutes talks at each "Stop" which included:

1. Outside "garage door" entrance - Joe Bolkovatz, CSI - JE Dunn
2. Foundation - Jerry Abdie - KPFF
3. Basement - John Plagmeier - JE Dunn
4. Central Lobby/Post Office - Doug Grassman - JE Dunn
5. Courtroom - Peter Meijer, Architect, LLC specialist in historic structures
6. Second Floor Judge Chambers - Jim Riley - SERA Architects, Inc.
7. Judge Area - Dave Newman - Artek, Inc.
8. Grand Stair Case - Don Eggleston, CSI, AIA - SERA Architects, Inc.

Everyone then moved up to the Princeton Building for dinner followed by a panel discussion.

Joe Bolkovatz, CSI - explained how JE Dunn Construction got contract for remodel.

Don Eggleston AIA, CSI - the architect started his talk by advising there were 20 months between bid and signing of contracts. Construction went well because contractor, sub-contractors and suppliers seemed to care about the building. Everyone signed on to the partnership agreement resulting in frequent meetings of contractor, sub contractors and suppliers.

Jerry Abdie of KPFF Consulting Engineers advised that Grant Davis started the conceptual engineering design and now Jerry is the person in charge. Upgrading this building

in a conventional way would not work. So they used 75 isolators under building so the building would withstand an up to 6.8 magnitude earthquake or a movement of 18 inches.

Peter Meijer was the Historical Consultant because SERA was required to preserve the "Historic Nature" of the Building. The building had been remodeled and added on to over the years so they're trying to get back to the original structure when possible. There was also some concern about finding anything of archeological significance while they were digging out the basement. Fortunately, nothing was found so work continued uninterrupted. There was some interest in a "ghost" in the attic. Apparently it was a harmless "ghost" and just liked to turn off the lights when nobody was looking.

All the contractors looked at the project in the same way. They kept their part of the project as close to bid price as possible so the whole project would stay within in total bid. The cost of materials was controlled as well as scheduling because time is money.

The discussion of what happens to the landscaping interested me. Apparently, they saved seeds and are matching them to what they think was there originally. The trees on the South Side had to be removed but these trees will be replaced with large trees of the same species. Thus the Courthouse should look like it did years ago with trees and shrubs around it.

When my laboratory was downtown on 11th and Yamhill Streets and also when it was on 11th and Taylor Streets, I used the Pioneer Post Office because it was closest. When I moved the laboratory to 5th Avenue, I changed Post Offices to one that was a block away. I still enjoyed going up to the Pioneer Post Office when I had the time.

Now, since I no longer work downtown, I need a special event to visit the Pioneer Court House. Thanks, everyone, for the fall construction site tour.

Panel discussion at The Princeton ballroom



Peter Meijer talking to a group



THE CONTACTS

PORTLAND OFFICERS & DIRECTORS

President

Cherie McNabb, CSI, CDT.....360-281-1918

President Elect

Dennet Latham, CSI, CCS, AIA503-723-3998

Immediate Past President

Jim Wilson, CSI, CCS, AIA.....503-222-1917

Secretary

Doug Allen, CSI.....360-263-0049

Treasurer

Dennet Latham, CSI, CCS, AIA.....503-423-3998

Executive Director

Jane Phifer, CSI...503-805-2500 or 503- 399-7312
CSI Office - P.O. Box 5116, Salem, OR 97304

Director, Professional 2004-2006

David Roggenkamp, CSI360-573-4545

Director, Professional 2004-2006

Russ Pitkin, PE, CSI.....503-274-5432

Director, Professional 2003-2005

Ray Totten, CSI, CCS, AIA503-635-4425

Director, Industry 2004-2006

Carolyn Miller, CSI, CDT.....503-260-7744

Directory, Industry 2004-2006

Kaye Kloster, CSI503-227-3424

Director, Industry 2003-2005

Denise Carpenter, CSI..... 503-720-3005

COMMITTEE LEADERS

Awards

Denise Carpenter, CSI..... 503-720-3005

By-Laws

Ken Searl, FCSI, CCS.....503-362-3472

Certification

Ray Totten, CSI, CCS, AIA503-635-4425

Editor

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

Education

Jim Wilson, CSI, CCS, AIA.....503-222-1917

Continuing Education

Skip Brown, CSI, CCS.....503-827-0505

Golf Tournament - Co-Chairs

John Armstrong, CSI.....503-579-2477
Erica Bitterman, CSI..... 503-274-2030

Library

Perky Kilbourn, CSI.....503-244-1778

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Pat Murphy, CSI.....503-285-4557

Operations Guide

Ken Searl, FCSI, CCS.....503-362-3472

Orientation

Michael Muhle, CSI, CDT.....503-284-6799

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Cornelia Gibson, CSI, CDT.....503-624-7444
Ellen Onstad, CSI, CDT.....503-225-0361

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Kaye Kloster, CSI503-227-3424

Publicity

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

Specifiers Share Group & Technical

Fred Herbold, CSI, CCS.....503-297-1382
Isaac Tevet, CSI, AIA.....503-222-1661

Student Affiliate

Rudy Barton.....503-725-3339

Webmaster

Jane Phifer, CSI503-805-2500

Portland Website
www.portlandcsi.org

INSTITUTE DIRECTORS

2004-2007

Tom Dienes, CSI, CCCA

Ph: 541-485-1700 Fax: 541-683-7722
Email: tsdienes@ix.netcom.com
Wildish Standard Paving
PO Box 7428
Eugene, OR 97401

2003-2006

Rick Heiserman, CSI, CCCA, AIA

Ph: 503-245-7100 Fax: 503-245-7710
Email: rickh@amaa.com
Ankrom Moisan Associated Architects
6720 SW Macadam Avenue, Suite 100
Portland, OR 97219

Region Website
www.csinwr.org

REGION COMMITTEES

Academic Liaison

Jeffrey Callahan, CSI, CCCA.....907-786-6425

Awards

John Lape, FSCI, CCS, AIA.....509-624-5600

Certification

Brian Keil, CSI, CCPR206-763-0300

Education

Perry White, CSI, CDT.....888-284-6799x25

Electronic Communications

Rand New, CSI, CDT.....541-688-5594

Membership

Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400

Planning

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

Publications

Bob Kenworthy, FCSI, CCS, CCCA...253-931-4826

Technical

Marc Chavez, RA, CSI, CCS.....206-622-9450

Treasurer & Secretary

Larry Barger, CSI, CCS360-943-4650

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, 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.....541-687-9600

Idaho, Boise, ID (First Tuesday)

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

November 2004

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				

- 11/2 CSI Board Meeting
- 11/8 CSI Membership Meeting, Billy Reeds
- 11/9 CSI Chapter Meeting, New Masterformat:**
*Making a successful transition -
New member Orientation*
- 11/11 CSI Specifiers Share Group Meeting
- 11/25 Happy Thanksgiving

**Mark your Calendars!!!
The 2005 Portland Products
& Services Fair**

**May 10, 2005
Oregon Convention Center**

December 2004

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	

- 12/7 CSI Board Meeting
- 12/9 CSI Specifiers Share Group Meeting
- 12/13 CSI Membership Meeting, Billy Reeds
- 12/14 CSI Chapter Meeting, What's Hot in Hillsboro!**
*Meet and mix with the planners and designers
making it happen in Hillsboro.*
- 12/23 CSI Specifiers Share Group Meeting



Portland Chapter CSI
PO Box 5116
Salem, OR 97304



Knowledge for Creating
and Sustaining
the Built Environment

The Predicator

Volume 44, Issue # 4

December 2004

Portland, Oregon Chapter — The Construction Specifications Institute

It's Hot in Hillsboro!

Celebrating Opportunity in a Growing City

Tuesday, December 14, 2004

Hillsboro, Oregon is cooking with new retail, municipal and medical projects that are creating huge opportunities for the design and construction firms in the Portland metropolitan area. This evening we are putting the players together to give you a look at the City's master plan, the projects that are being designed and built, and the people who are making it all happen!

Jake's Grill is preparing a 'strolling buffet' with regional food stations located around the room. Fill your plate with flavorful dishes from the *Spanish Table*, the *Indian Platter* and, returning by popular demand, the *Asian Grill*. Moving around the room for each course, you will mix and mingle for the entire dinner.

Marion Hemphill, City of Hillsboro Director of Capital Planning and Development and **Larry Pederson, Director of Economic Development** will share the vision that is driving Hillsboro's expansion beyond the 'northwest silicon valley' into a unique and thriving city. **Specht Development**, with **LRS Architects** and **Skanska USA**, will be presenting our featured municipal project - the **Civic Center** that has helped spur the development community.

All evening you will have a rare opportunity to visit with the Architect-Constructor teams who have Hillsboro projects in design and construction at displays throughout the room. Joining us will be representatives of Architects **Ankrom Moisan, Clark Kjos, Mahlum** and **SRG** with Contractors **Andersen, SD Deacon, Lease Crutcher Lewis** and **Robinson**.

Reserve now and be there for what will be the marketing event of the year!

The Princeton Building Ballroom 614 SW 11th Avenue
Meet Your Colleagues No-Host Bar Opens at 5:30

Cost: \$35.00 per person with Pre-paid Reservations by December 10, 2004

Sponsor a Table for 8 for just \$ 260.00

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

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

Toy & Joy Makers! Bring an unwrapped child's gift for our annual drive to put smiles on young faces. *See details on Page 2.*

1 LU will be available, sign up at the registration desk.

C.S.I. Portland Chapter
Phone: (503) 805-2500
Fax: (503) 587-0337
E-Mail: jane@portlandcsi.org
Web site: www.csinet.org

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PRESIDENT'S MESSAGE

By Cherie McNabb, CSI, CDT



Is it almost the Winter Holiday season? Oh my.... I wish you the best!

We have a great event planned for you in December. The program committee has once again out done themselves.

We will be featuring the city of Hillsboro and the Hot projects that are occurring there, hence the theme of "It's Hot in Hillsboro".

We have invited Marion Hemphill and Larry Pederson with the City of Hillsboro to be our featured guest speakers.

This evening will give the architects, contractors and developers working on the properties in Hillsboro opportunities to show off the special features of each individual project. Each group will also be giving a brief description of their project.

We also started a tradition last year with the Toy and Joy Makers of Oregon. We will be working on a toy drive during this meeting and need you to bring an unwrapped gift with you. A group of firefighters will be coming to the meeting to pick up the unwrapped gifts. If you are not able to make it to the meeting but would still like to donate an unwrapped gift we will be having a drop site at two locations:

~ **Ford Graphics – Kaye Kloster**
401 NW 14th Avenue, PDX, OR 97209 For a toy to be picked up call Kaye at 503-227-3424.

~ **Precision Images – Erica Bitterman**
900 SE Sandy Blvd., PDX, OR 97214
or 1002 Main Street, Vancouver, WA 98665
For a toy to be picked up call Erica at 360-567-2910

Both of these Team members have graciously offered to be the drop site for the gifts and they have also volunteered to pick up gifts at your offices if you cannot get to one of these locations. Give either one a call if you need assistance.

Let's work on getting together a large donation this year. We would like to at least double what he brought in last year. We appreciate all of your generosity this holiday season.

We will also be having a raffle for a \$200.00 gift certificate to Circuit City at the dinner meeting. All the money that we raise on this raffle will be donated to the Toy and Joy Makers.

Remember the dinner plus program is Tuesday, December 14th at the Princeton Building Ballroom at 614 SW 11th Avenue in Portland, OR.

The Social hour begins at 5:30pm - We will have an extended bar throughout the evening and the food will be placed at stations throughout the room. This will give you the opportunity to roam around the room and see all of the architectural boards that will be on display.

Please come and join in on the festive atmosphere and the interesting topic that will be discussed. See you then. Remember to RSVP Jane Phifer 503-805-2500 or email jane@portlandcsi.org.

We also have our new website up and running. Please check it out. www.portlandcsi.org If you have any corrections or an opinion on anything please let Jane Phifer at jane@portlandcsi.org or Cherie McNabb at cheriemcnabb@comcast.net know of your concerns. We are definitely in to solutions so giving a concern is wonderful but, please try to have some sort of solution to your concern.

Thanks.

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

By: Dave Shelman, CSI, CCS



Bye, Bye UBC.

The International Building Code is here! Finally! On October 1, the State of Oregon Building Codes Division (BCD) officially adopted the 2003 International Building Code (IBC), 5th printing, to be the code that governs non-residential building construction throughout the state. This 2003 IBC, with Oregon amendments,

is titled the 2004 Oregon Structural Specialty Code (2004 OSSC). It replaces the 1998 OSSC, which was based on the 1997 Uniform Building Code. Several other related codes were adopted on October 1. See adoption schedule below.

The BCD has asked that local jurisdictions adopt the new codes as soon as possible. They have also required all building departments to allow a phase-in period for building officials and other parties to construction to adjust to the change. This is how the phase-in period is intended to work:

- Plans received prior to January 1, 2005 will be reviewed under the 1998 OSSC unless they have been designed to the 2004 OSSC
- Plans received after January 1, 2005 will be reviewed under the 2004 OSSC
- Appeals for extension of this schedule may be made for large projects. A written request is required.
- Projects approved prior to January 1, 2005 will be inspected under the 1998 OSSC unless they were designed to the 2004 OSSC
- All projects approved after January 1, 2005 will be inspected under the 2004 OSSC
- “Mixing” requirements from both codes will not be allowed
- Exception to phase-in schedule:
Until March 31, 2005 townhouses and rowhouses will be governed by the 1998 OSSC

Code Adoption Schedule (current and projected):

October 1, 1998:

- 1998 OSSC

April 1, 2000:

- Oregon Plumbing Specialty Code (OPSC)

October 1, 2002:

- Oregon Electrical Specialty Code

April 1, 2003

- One & Two-Family Dwelling Specialty Code (based on International Residential Code)

October 1, 2004:

- 2004 OSSC
- 2003 Oregon Mechanical Specialty Code (OMSC)
- International Fire Code

April 1, 2005:

- New One & Two-Family Dwelling Code based on the 2003 International Residential Code
- New Oregon Electrical Specialty Code, based on the 2005 National Electrical Code
- New Oregon Plumbing Specialty Code based on the 2003 Uniform Plumbing Code

The State of Washington made most of the above adoptions in July of this year. The Oregon BCD intends to resume a 3-year adoptions cycle on the OSSC.

The above codes are available through the Oregon Building Officials Association (OBOA) (503-873-1157) or Building Technical Bookstore (1-800-ASK-BOOK).

The OBOA has and will continue to sponsor classes on the use of the new codes. For code information, go to www.cbs.state.or.us/bcd/codeprograms.

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 (fherbold@sera.com).

PERKY'S NOTES

By: Perky Kilbourn, CSI



There are lots of news items that affect the construction industry. Here is a discussion of a few articles on climate change which I found of interest.

Gerald A. Meehl and Claudia Tebaldi with the National Center for Atmospheric Research in Boulder, Colorado

published an article "More Intense, More Frequent, and Longer Lasting Heat Waves in the 21st Century" in the August 13, 2004 issue of SCIENCE. SCIENCE is published by the American Association for the Advancement of Science. Meehl and Tebaldi examined future behavior of heat waves in a global coupled climate model, the Parallel Climate Model (PCM). PCM has a latitude-longitude resolution of about 2.8 degrees in the atmosphere and a latitude-longitude resolution of less than 1 degree in the ocean. PCM contains interacting components of atmosphere, ocean, land surface and sea ice. Quoting from their article

"Thus areas already experiencing strong heat waves (e.g. southwest, midwest, and southeast United States and the Mediterranean region) could experience even more intense heat waves in the future. But other areas (e.g. northwest United States, France, Germany, and the Balkans) could see increases of heat wave intensity that could have more serious impacts because these areas are not currently as well adapted to heat waves."

A Workshop on Climate Sensitivity of the Intergovernmental Panel on Climate Change Working Group 1, was held July 26 to 29, 2004, in Paris. Richard Kerr wrote a report on this workshop which was published in the August 13, 2004 issue of SCIENCE. The conclusion seemed to be that the world has warmed by 0.6 degrees C during the past century. Burning fossil fuels to produce the greenhouse gas carbon dioxide has caused most of the warming. The conclusion seemed to be that 3 degrees C as the most likely amount of warming for a doubling of carbon dioxide. This is based on:

1. a collection of expert-designed independent models,
2. a thoroughly varied single model
3. paleoclimates over a range of time scales.

Quoting the concluding sentence ***"Support for such a strong sensitivity ups the odds that the warming at the end of this century will be dangerous for flora, fauna, and humankind."***

Almost two years ago, in SCIENCE in a February 14, 2003 article entitled "Study Shows Richer Harvests Owe Much to Climate" by Erik Stokstad, it was noted that climate change did effect plant food supply. Scientist have know for many years that the temperature of the earth has not been constant and that animals have changed with changing temperatures. For example in an article in the November 24, 1967 issue of SCIENCE entitled "Antarctic Radiolaria, Magnetic Reversals, and Climatic Change" by James D. Hays and Neil D. Opdyke there is a discussion changes of radiolaria (diatoms/plankton) in ice in Antarctica which ice is about 3.5 million years old. I kept this article for another reason but this article does discuss the fact that the variations of the diatoms/plankton found in the ice cores which were taken does correspond to what is known of the temperature changes in the world at that time.

ED LOY CARTOON

MEMBER NEWS



Denise Carpenter, CSI
T&A Supply Company
6032 N Cutter Circle #400
Portland OR 97217

Happy Holidays,
Welcome to Denise Carpenter's
mini autobiography. Born and
raised in Richmond California,

Friday, December 13th 1957 year of the Rooster. Sagittarius is such a good sign, and who ever said Friday the 13th was unlucky anyway? Some of you may know me as Lucille Ball, Elvis Presley, Bride of Frankenstein, Carmen Miranda, Annie Oakley, or even a Viking!

I moved to the great northwest Woodland, Washington in 1979. I'm sure that's why Mt. St. Helens started to rumble. I love to play soccer, ski, fish, hike, snowboarding - all the fun stuff. One of my pride and joys is my 18 year old son, Paul, who is currently attending Clark Community College in Vancouver, Washington.

I entered into the construction industry in 1986 working for a major floor covering distributor. I have been specifying floor covering products to the architectural and design community for the last 8 of those 18 years.

I am employed by T&A Supply Company covering Oregon, SW Washington, & Idaho. We represent many major floor covering manufacturers including a wide variety of installation products. T&A Supply Company operates 12 branches within 5 states in the Northwest including Alaska.

I have been a member of CSI since 1997, thanks to our mighty leader Cherie McNabb who invited me to my first meeting.

Being a CSI member and participating on the Board of Directors has added a wonderful dimension to my life. It has greatly expanded my knowledge of what's happening in our industry and keeps me aware of current issues. However, most meaningful to me are the relationships and friends that will always be a part of my life and memories.

I would like to say thank you to all my friends at CSI.



Hello CSI Portland Oregon! Doug Allen and family are pictured here from sunny Bend, Oregon. Atop Pilot Butte, the view is endless; similar to the opportunities for those who are members of, and participate in CSI. The potential to go far is great and close friendly relationships are abundant in this great organization.

We live in La Center, Washington with quite a list of pets, including two rather round American Quarter Horse geldings. The job keeps me pretty busy so the horses get to eat more than I can exercise them. I wonder if there is an equine weight loss patch. We like to camp with the horses and trail ride mostly, but sorting cows is another event we have found to be exciting and more challenging. I like photography and most recently learning to fly fish, which is also very channeling for me.

I've been involved in the door and hardware industry for about 25 years. My employer, ESSEX Industries, a national sales and marketing group has kept me pretty busy for the past five plus years as an Architectural Representative and Specifications Consultant in Washington, Oregon and Northern California. It is very rewarding to assist design professionals, contractors, and building owners with the dos and don'ts of the door and hardware industry.

I joined CSI in 1999, shortly after starting to work for ESSEX Industries. I visited the CSI website, found Mr. Kilbourn, the Portland chapter's Membership Chairman. It was a little intimidating contacting ZGF right off the get go. However, my fear was unfounded. Lee was very friendly, asked me to come into the office and update ZGF's library. He got to know me a bit and signed me up with CSI. I wish I had done it sooner.

I have been involved with several of the chapter committees, am currently on the Board of Directors, and best of all, made a lot of great friends and mentors that have helped me along the way.

For opportunity and friendly relationships, get involved in CSI.

Happy Holidays,
Doug Allen, Secretary

CSI OCTOBER MEETING RECAP

By: Jon Grasle, CSI

Creative Design, Creative Collaboration, Creative Construction ... all were required to successfully complete the new Seattle Central Library. The library was designed by award-winning Dutch Architect, Rem Koolhaas' Office of Metropolitan Architecture (OMA) in a joint venture with LMN Architects, Seattle. Hoffman Construction Company of Washington was the General Contractor/Construction Manager.

Hoffman's Dale Stenning (Sr. Project Engineer) and Doug Winn (Project Executive), both construction veterans of Seattle's other awe-inspiring structure, the Experience Music Project, provided a mesmerizing multimedia presentation documenting the creative processes and the finished product.

When Seattle voters approved funding for the library in 1998 it is unlikely they had any idea what a distinctive, magnificent, community building this would be.

The eleven story, 427,000-sf structure was built from five platforms, each platform representing a basic library function. Instead of being stacked directly on top of one another, the platforms were repositioned off center. This provided better views, created airy spaces, and allowed more natural light into the building. Public spaces are located on the tops of each platform. Surrounding the platforms is a "blanket" of aluminum and glass curtain wall. The curtain wall is made up of approximately 10,000 diamond shaped glass panels. The façade is translucent, allowing the structure of the building to be expressed to the interior.

Level 1, which is at street level along 4th Avenue includes the 80,000 book Children's Library, 425 seat Auditorium, and a section devoted to World Languages (ESL) with art floor by artist Ann Hamilton. Level 2 is devoted to staff use; shipping receiving, book sorting, and technical services. Level 3, the "Living Room" is accessed off 5th Avenue and is a large open space for the public to meet. Level 4 is the Meeting floor, with multi-purpose rooms, of various sizes, connected with free-flowing red corridors. Level 5 is the "Mixing Chamber", a concentrated place for research via 132 publicly accessible computers and also the headquarters for the reference librarians. The "Books Spiral" comprises Levels 6 through 9 containing the stacks and

Level 10, which houses the 12,000-sf, 400 seat Reading Room. The books spiral allows continuous movement between floors without the need for stairs or elevators and allows for maximum flexibility as the collection changes over time. Level 11 is "Headquarters" housing administrative offices, Board Room, Human Resources and staff lunch room.

Challenges associated with the project's revolutionary design included the uniquely cantilevered floors, the ambitious material tolerances, and the desired reduction in the number of columns or "interventions." The cantilevered floors necessitated an extensive temporary steel support system, requiring over 320 tons of steel and affecting many trades. Hoffman hired MKA Engineers to assist with the design of the temporary support system and provided the steel bidders with a video to better visualize the intended approach. The interface between steel and curtain wall was extremely ambitious, i.e., +/- 3mm. It was achieved with extensive computer modeling and 3D digital survey scanners. Sloping or "raking" columns were utilized throughout the structure to minimize the number of columns and optimize program space. In essence, the sloped columns followed a "connect the dots" approach.

The library opened to rave reviews on May 23, 2004. There were more than 25,000 visitors on opening day. The library is now open 7 days a week and easily accommodates its 8,000 daily visitors. It's a high technology, user-friendly building featuring comprehensive services and meeting spaces for the community and as Rem Koolhaas noted ... "The building is obscenely beautiful."



THE CONTACTS

PORTLAND OFFICERS & DIRECTORS

President

Cherie McNabb, CSI, CDT.....360-281-1918

President Elect

Dennet Latham, CSI, CCS, AIA503-723-3998

Immediate Past President

Jim Wilson, CSI, CCS, AIA.....503-222-1917

Secretary

Doug Allen, CSI.....360-263-0049

Treasurer

Dennet Latham, CSI, CCS, AIA.....503-423-3998

Executive Director

Jane Phifer, CSI...503-805-2500 or 503- 399-7312
CSI Office - P.O. Box 5116, Salem, OR 97304

Director, Professional 2004-2006

David Roggenkamp, CSI, PE.....360-573-4545

Director, Professional 2004-2006

Russ Pitkin, CSI, AIA.....503-274-5432

Director, Professional 2003-2005

Ray Totten, CSI, CCS, AIA503-635-4425

Director, Industry 2004-2006

Carolyn Miller, CSI, CDT.....503-260-7744

Directory, Industry 2004-2006

Kaye Kloster, CSI503-227-3424

Director, Industry 2003-2005

Denise Carpenter, CSI..... 503-720-3005

COMMITTEE LEADERS

Awards

Denise Carpenter, CSI..... 503-720-3005

By-Laws

Ken Searl, FCSI, CCS.....503-362-3472

Certification

Ray Totten, CSI, CCS, AIA503-635-4425

Editor

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

Education

Jim Wilson, CSI, CCS, AIA.....503-222-1917

Continuing Education

Skip Brown, CSI, CCS.....503-827-0505

Golf Tournament - Co-Chairs

John Armstrong, CSI.....503-579-2477
Erica Bitterman, CSI..... 503-274-2030

Library

Perky Kilbourn, CSI.....503-244-1778

Membership - Co-Chairs

Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400
Pat Murphy, CSI, CDT.....503-285-4557

Operations Guide

Ken Searl, FCSI, CCS.....503-362-3472

Orientation

Michael Muhle, CSI, CDT.....503-284-6799

Products & Services Fair - Co-Chairs

Cornelia Gibson, CSI, CDT.....503-624-7444
Ellen Onstad, CSI, CDT.....503-225-0361

Programs - Co-Chairs

Jody Moore, CSI, CDT.....503-284-6799
Kaye Kloster, CSI503-227-3424

Publicity

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

Specifiers Share Group & Technical

Fred Herbold, CSI, CCS.....503-443-7389
Isaac Tevet, CSI, AIA.....503-222-1661

Student Affiliate

Rudy Barton.....503-725-3339

Webmaster

Jane Phifer, CSI503-805-2500

Portland Website
www.portlandcsi.org

INSTITUTE DIRECTORS

2004-2007

Tom Dienes, CSI, CCCA

Ph: 541-485-1700 Fax: 541-683-7722
Email: tsdienes@ix.netcom.com
Wildish Standard Paving
PO Box 7428
Eugene, OR 97401

2003-2006

Rick Heiserman, CSI, CCCA, AIA

Ph: 503-245-7100 Fax: 503-245-7710
Email: rickh@amaa.com
Ankrom Moisan Associated Architects
6720 SW Macadam Avenue, Suite 100
Portland, OR 97219

Region Website
www.csinwr.org

REGION COMMITTEES

Academic Liaison

Jeffrey Callahan, CSI, CCCA.....907-786-6425

Awards

John Lape, FSCI, CCS, AIA.....509-624-5600

Certification

Brian Keil, CSI, CCPR206-763-0300

Education

Perry White, CSI, CDT.....360-570-0504

Electronic Communications

Rand New, CSI, CDT.....541-688-5594

Membership

Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400

Planning

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

Publications

Bob Kenworthy, FCSI, CCS, CCCA...253-931-4826

Technical

Marc Chavez, RA, CSI, CCS.....206-622-9450

Treasurer & Secretary

Larry Barger, CSI, CCS360-943-4650

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, 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.....541-687-9600

Idaho, Boise, ID (First Tuesday)

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

December 2004

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
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- 12/7 CSI Board Meeting
- 12/9 CSI Specifiers Share Group Meeting
- 12/14 CSI Membership Meeting, Billy Reeds
- 12/14 **CSI Chapter Meeting, What's Hot in Hillsboro!**
Meet and mix with the planners and designers making it happen in Hillsboro.
- 12/23 CSI Specifiers Share Group Meeting
- 12/28 CSI Program Committee, 7AM, Cadillac Cafe

**Mark your Calendars!!!
The 2005 Portland Products
& Services Fair**

**May 10, 2005
Oregon Convention Center**

January 2005

Sun Mon Tue Wed Thu Fri Sat

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30	31					

- 1/4 CSI Board Meeting
- 1/11 CSI Membership Meeting, Billy Reeds
- 1/11 **CSI Chapter Meeting, Joint with ASPE**
Annual Economic Forecast with John Mitchell
- 1/13 CSI Specifiers Share Group Meeting
- 1/27 CSI Specifiers Share Group Meeting

**Mark your Calendars!!!
Region Conference**

**Aug 25—27, 2005
Spokane WA - Doubletree**



Portland Chapter CSI
PO Box 5116
Salem, OR 97304



Knowledge for Creating
and Sustaining
the Built Environment

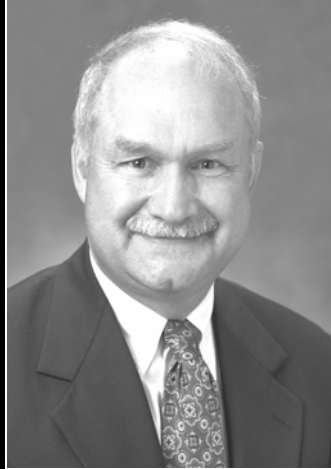
The Predicator

Volume 44, Issue # 5

January 2005

Portland, Oregon Chapter — The Construction Specifications Institute

C.S.I. Portland Chapter
Phone: (503) 805-2500
Fax: (503) 587-0337
E-Mail: jane@portlandcsi.org
Web site: www.portlandcsi.org
Web site: www.csinet.org



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

Tuesday January 11, 2005

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.

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In the first half of 2004 the Pacific Northwest experienced markedly improved growth in jobs and construction, which was met with a counter-balancing force of a sharp increase in world-wide demand and record high prices for concrete, steel and wood. While the latter factor has leveled off somewhat, the trend of the former is not as easily defined. Put in perspective, our region's economic picture is far from the hoopla enjoyed in the 90's, but the direction is definitely upward. Office and hotel occupancy rates are on the increase, as is residential construction. But with interest rates beginning to rise again, what are the prospects and risks facing us nationally and locally for 2005?

Mr. Mitchell will discuss the critical issues, causes, components and trends with his financial mastery of the market and his illuminating style that has captivated his audiences. Minneapolis-based U.S. Bancorp is the 8th largest financial services holding company in the United States, with assets in excess of \$165 billion and over 2,200 banking offices. U.S. Bancorp is the parent company of Firststar Banks and U.S. Bank.

Special thanks to our event sponsors: Hanset Stainless, Whitaker Ellis, & JH Kelly

The Princeton Building Ballroom 614 SW 11th Avenue

Social at 5:00 PM

Dinner and Program 6:00 PM

Cost: \$30.00 per person with Pre-paid Reservations by January 6, 2005.

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.

1 LU will be available, sign up at the registration desk.

**NOTE : Dinner and
Program are starting
early 6:00 PM**

PRESIDENT'S MESSAGE

By Cherie McNabb, CSI, CDT



HAPPY NEW
YEAR!!!!

My, how time flies these days. I just get one article written and then another is due.

In December I went to my Mom and Dad's place to help out. Mom had complete knee replacement and just couldn't do much. So all us kids pitched in and went to their place to do all the basic chores.

Before I start my story I want to let you all know that Mom and Dad live in a small city. While I was there and doing chores around the house that mom is still not capable of doing herself I got to thinking. So, the first step was to find her a housecleaner. When thinking of where to find one of these where is the first reference tool that comes to mind (without a computer)? **The Yellow Pages** of course. There for I went to the yellow pages to look up the title, house cleaners, no luck under that title. I tried to think of other headings that it might be listed under, cleaning, maintenance, etc. Once again, no luck. So, with many hours to kill I chose to go through page by page in these yellow pages (remember they live in a small city so the yellow pages were only about 3/4" thick). I know you are wondering ? Where is she going with this? Be patient, I do have a point.

While flipping page by page and having very little luck finding the title I am looking for. Then a light bulb came on in my head.



CSI Master Format 2004.

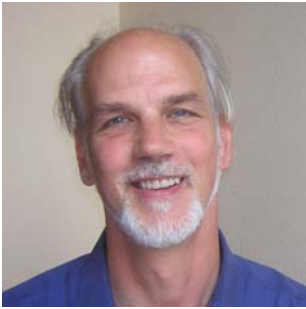
Some people are feeling slightly disappointed that CSI is revamping the MasterFormat '95, understandably so. But, as I was going through all of the yellow pages I realized that if these pages did not add new titles to grow with technology many businesses would not be able to get the proper advertisement they need to be recognized. As in MasterFormat '95 there were some missing pieces. One example would be LEED. With MasterFormat 2004 this title is actually recognized and there are helping tools on how to become certified and the procedures to get the building certified (a good addition). Many procedures in the building of a project did not have a designated spot so they were placed in many different places which made it difficult and challenging for the Contractors and subs to keep them straight. Some things would end up getting left out of the actual contract or bid. This was not a good thing.

We all need to remember that MasterFormat is a tool to help us do our jobs similar to the yellow pages. Just think just a few years ago who would have thought that we would be referring to our computers for directions, yellow pages info and many other types of information. CSI is only trying to keep its documents at the same speed we all seem to be at right now. Remember, you can still write your specifications using the '95 format. There will be many classes on understanding MasterFormat 2004 through CSI. If you are interested in any more information you can go to the national CSI website www.csinet.org or contact myself or Jane Phifer for help on this in the future.

Thanks and have a terrific month!

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

By: Fred Herboldt, CSI, CCS



IBC vs. UBC Changes to Doors & Hardware

Continuing our discussion of the transition to IBC

It may be a while until we are graced by another fine article in this column by David Shelman. David is taking a break from work and from this honor. I stepped in to fill Dave's

shoes as co-chair (beside Isaac Tevet) of Specifiers Share Group late in 2003, and it seems fitting that I assume this role as well.

In last month's article, Dave summarized the schedule for adopting the new building code in Oregon that is based on the International Building Code (IBC). In the past Oregon's code was based on the most prevalent model code on the west coast, the Uniform Building Code. Now the IBC replaces the UBC and two other model codes in the United States. In the American tradition, the IBC is a compromise between all three codes. Consequently, we all will be designing, specifying, supplying and constructing building products with a difference, based on the differences between the IBC versus the UBC.

Recently Joe Cross, AHC CSI and Rick Jermain, AHC CSI, presented significant code differences that affect doors and door hardware. The Presentation was developed by Joe Cross of IR Security & Safety Consultants. They represent Ingersoll-Rand products including Schlage, Von Duprin, LCN, Falcon, Ives, Monarch, and Dor-O-Matic, and Locknetics. Joe and Rick are part of the IR SSC team who offer door hardware scheduling service in Oregon and South Washington.

Here are the big differences:

I-2 Occupancies(407.3.1): All corridor doors (other than 302.1 listings -) do not have to be rated nor do they need self closing devices. Note: Doors must still latch (roller latches are not permitted) and they must still be smoke gasketed.

Doors in exit enclosures (715.3.4): Regarding Temperature Rise Doors; Fire door assemblies in exit enclosures no longer need to be temperature rise rated if building has an automatic sprinkler system. (1020.4 Exit Passageways also references 715.3.4)

Size of doors 1008.1.1: The minimum width of each door opening shall be "a clear width of not less than 32". Clear width shall be measured between the face of door and the stop with the door open at 90 degrees."

1008.1.1.1 (related to above.) Projections into clear width: "There shall not be projections into the required clear width lower than 34" above the floor or ground. Projections into the clear opening width between 34 & 80 inches shall not exceed 4 inches." (This clears up some inspection issues in the last 2 years.)

1008.1.3.2 Power-operated doors: This new passage finally spells out differences between high-energy and low-energy door operators. – High-energy operated doors are like those fast-acting swinging doors at supermarkets where foot pads and other devices are needed to protect people from the doors.

1008.1.3.4 Access controlled egress doors: This is another new passage related to electronic access & egress from buildings. It also clears up some issues that have been coming up over the last few years.

1008.1.9 Panic & fire exit hardware: Requirements for panic hardware were revised from 50 occupants on A or E occupancies to 100 occupants. **This was recently revised by IBC back to 50 occupants.** Your best service to your client is to maintain the 50 occupants rule.

1008.1.8.6 Delayed egress locks: New sentence "A building occupant shall not be required to pass through more than one door equipped with a delayed egress lock before entering an exit."

Little Differences:

Door Closing (715.3.7): Fire doors shall be self-closing with the exception of Group R-1 hotel & motel communicating doors.

715.3.5.2 Oversized Doors: Oversized fire doors were addressed in the UBC, but not to this detail. Be aware of this paragraph when specifying large fire doors (usually over 8'0" x 8'0 pairs or 4'0" x 8'0" singles.)

1003.3.1 Headroom: 80 inches minimum (same as before.) Door closers and stops shall not reduce headroom to less than 78 inches. (This corrects an infrequent inspector issue on 6'8" doors.)

Doors in corridors and smoke barriers (715.3.3): "Fire doors shall also meet the requirements for a smoke and draft-control door assembly tested in accordance with UL 1784 with an artificial bottom seal installed across the full width of the bottom of the door assembly." The reference to "artificial bottom seal" means during the UL 1784 test, not as installed in your project.

Similarities:

Doors in Corridors & Smoke Barriers (715.3.3): Doors in corridors are still required to meet UL 10C (the positive pressure fire test.) Gasketing & Intumescent Seals shall still be provided. Intumescent requirements vary.

1109.9.9 Opening Force (Oregon): Exterior doors 8 ½ pounds; Interior doors 5 pounds; Pressurized stairway doors 15 pounds at exterior doors; Fire doors shall have the minimum force necessary to close & latch the door.

1109.10.12.4 Privacy (Oregon): "Doors to unisex toilet and bathing rooms shall be securable from within the room and be provided with a privacy lock and an "occupied" indicator."

SR104.2.1 Corridor Doors (Oregon): Same requirements as 407.3.1 (no closers required on corridor doors.)

SR108.3.3 Controlled egress locking systems requirements (Oregon): There are lots of requirements here, but in essence it is possible to lock exterior doors on these facilities and prevent easy exiting when all listed criteria are met.

Thanks to Joe Cross for allowing me to crib all this research. FH

By: Perky Kilbourn, CSI



Perky would like to discuss the Environmental Stewardship of Margie Largent. A list of Largent's achievements is available upon request.

In 1947 Largent started her practice of architecture by designing a home for her parents. This house is an excellent example of sustainability,

sensitivity and stewardship toward its environment.

The house demonstrates sustainability by the extensive use of recycled material (bricks, wood, nails etc.) from a circa 1890 prune dryer which was on the site. Also the use of English Walnut logs from an orchard which was being destroyed to allow for the construction of the existing Fred Meyer Store.

The house demonstrates sensitivity towards its environment because of its Energy Efficient Overhang and Solar Design. The overhang minimized the need for air conditioning in the summer. The orientation of the House on the lot utilized the sun for heating in winter and for lighting all year around.



Margie Largent

The house demonstrates stewardship of its environment by providing an inviting and inspiring place for Largent's parents to live in awareness and communion with their surroundings. After designing and helping to build the house, Largent's parents lived in the house until their deaths. Largent has also lived in the house on and off for the past 53 years.

In conclusion the significance of Largent's house is really fourfold.

First the use of salvaged materials such as wood, bricks, masonry units, metal connectors, nails and other construction items which were in short supply in 1947.

Second the energy efficient design which included an overhang and a flat roof with curbs to hold water for summer cooling.

Third the orientation of the house on the site that utilized current solar design concepts which had not yet been established in 1947.

Fourth its environmental impact was minimal as it sits amidst newer contemporary neighboring houses.

The 2005 CDT exam is scheduled for Saturday, April 2, on the Portland State University campus.

The Portland Chapter provides weekly Certification classes beginning the end of January 2005 and extending to the April exam. Members of the Chapter who have successfully passed previous exams will teach the classes. The classes may be taken for preparation to take the exam or for general knowledge of construction documents. For information about the exams or classes contact either Ray Totten, CCS, Certification Chair, (503) 635-4425, or Christine Steel, CCS, Co-Chair, (503) 944-7367.

This year's exam will be the first to cover the new *Project Resource Manual - CSI Manual of Practice*. Student study guides will also be available from CSI National once the test fees have been paid. For additional information and to pay exam fees on line, visit www.csinet.org/certification.

Early Registration Deadline – December 1, 2004. Final Registration Deadline – January 31, 2005.

*The Application Fee includes registration, study guide, and examination. It does not include *The Project Resource Manual – CSI Manual of Practice*, AIA, or EJCDC source materials on which the examination is based.

CDT Certification classes will begin on January 26 at LSW's Portland office's theater, 1956 N.W. Kearney, Portland, OR. The classes will be held on Wednesday nights from 6:30 pm to 8:30 pm except as otherwise noted. Cost is \$125.00 without the book or \$315.00 with the purchase of the book through the Portland Chapter. There is no charge for the class for students from PCC and CCC Construction Technology Programs and the PSU Architectural, although there will be a charge for students to buy the book through the Portland Chapter of \$190.50. Books will be on a first come/first serve basis. For more information see the website at www.portlandcsi.org. Sign up for the classes and books is through the Portland Chapter by contacting Jane Phifer, (503) 805-2500 or jane@portlandcsi.org.

ED LOY CARTOON

MEMBER NEWS



Happy New Year to all! It is that time of year to develop your resolutions/goals for the coming year. Here are a few I hope you consider:

1. Establish personal goals for a sustainable lifestyle: Recently, we have been encouraging sustainable design, building materials, and building methods for our projects and clients. Yet, how many of us have considered how to apply these worthwhile efforts within our own companies or more important to our personal lives? As a start, I recommend you initiate a lunch time discussion group in your own company provided by The Northwest Earth Institute. The Northwest Earth Institute is a local organization that has for many years been “recognized as a national leader in developing innovative programs that empower individuals and organizations to protect the earth. These programs emphasize individual responsibility, the importance of a supportive community, and the dual need to walk lightly on and to take action for the earth.”¹ The lunch discussion group consists of 8 to 12 persons is supported by a book of readings published by the NW Earth Institute about the chosen topic. A representative from the Institute comes to the first session to initiate the discussions and the last session to help summarize and to gain feedback from the group. Each week the group reads a chapter from the book and then discusses the presented readings in relation to the group’s own situation. Discussion group topics include:

- Choices for Sustainable Living
- Voluntary Simplicity
- Discovering a Sense of Place
- Exploring Deep Ecology
- Globalization and Its Critics

If this sounds interesting for your company or organization you can reach the Northwest Earth Institute at (503) 227-2807.

Note 1: From the Northwest Earth Institute website at www.nwei.org

2. Determine how your company will respond to the 2004 version of CSI MasterFormatTM. This past year through presentations at the CSI National Convention, local chapter meetings, and over the internet, we have been educated about the major changes to the time honored MasterFormat document. So 2005 is the year to determine how your company will respond to the major revisions. If you are a specifications writer will you revise your master specifications to the new numbers and titles? Will you have to maintain two sets of masters for those clients or ongoing projects that still use the 1995 version? Perhaps you will invest in a commercial master specifications library, like BSD SpecLink[®], that has a “toggle” switch that allows you to quickly move back and forth between the two versions in case you have existing projects that have to maintain the 1995 MasterFormat numbers and titles for a while. There has been much discussion on the internet in the last two years positive and negative about MasterFormat 2004. Interestingly, the architects have been the most vocal against the new version even though the Divisions they work with on a daily basis (Divisions 0 to 14) may have the least

number of revisions. If you are an engineer will you embrace the change to the new Divisions? If you are a cost consultant will you revise your cost codes to meet the new numbering system? If you primarily work with drawings and follow MasterFormat for indexing details or drawing layer names, will you update your naming system to the new system? As a product manufacturer or distributor will you reclassify your marketing materials by the new numbers? As several persons have stated recently, the change to the new system will be more evolutionary than revolutionary. For example, I happened to visit Crossfield Products Corp.’s web page last week. They have already updated their web page to list their products by MasterFormat 2004 numbers. How will you act?

3. Become more involved in your favorite industry association. Whether a member of CSI, AIA, ASPE, AGC, ASME, AIIDA, ASLA, SEAO or other organization, challenge yourself to become more involved in committee work or run for office. Regarding CSI, if you have not already participated in one of the certification programs, CDT, CCS, CCCA, or CCPR, consider studying for and taking one of the certification tests. The Portland Chapter will once again provide study sessions for the CDT exam during February and March leading up to the exam in April. Or, consider participating on one of the several committees that help to plan Portland Chapter activities like education seminars, meeting programs, the Products and Services Fair, or the annual golf tournament in the summer. Participating on a committee or running for a Board of Directors office is a great way to meet new people and learn more about CSI and its importance to the industry. If you are a product representative consider having a booth at the Products and Services Fair in May. If you represent “work results” like healthcare lighting, wet pipe sprinkler systems, or plate cell solar energy collectors, the Fair is a great way to promote the new MasterFormat Divisions for your products; 26 55 70, 21 13 13, and 48 14 13.16.

So, Happy New Year and Good Luck in pursuing your new goals!

Dennet Latham, AIA, CSI, CCS
CSI Portland Chapter, President Elect and Treasurer

Dennet Latham is an architect with CH2M HILL – IDC and performs duties of the Architecture Discipline Specifications Coordinator. He is a 20 plus year member of CSI and has had a number of committee and Board of Director positions with the Portland Chapter including chapter President in 1986-87. (Recycling is good practice!) Dennet is married to Claire, a member of the Business Faculty at WSU - Vancouver, WA campus, and has two daughters Michelle and Nicole. Dennet enjoys activities with his family, home and garden projects, and riding a bike to work as schedule allows (a result of participating in one of The Northwest Earth Institute’s lunch time discussion groups last year - Voluntary Simplicity).

CSI NOVEMBER MEETING RECAP

By: *Perky Kilbourn, CSI*

Edits by: *Rick Heiserman and Lee Kilbourn*

Joe Bolkovatz, CSI of JE Dunn Construction, introduced the panel. Bolkovatz first indicated that in the late 50's, while he was still in High School, there was no standardization of the divisions in a specifications. This changed in 1961 with the introduction of CSI 16 Division Format which in turn was updated in the 70's, 80's and 90's. MasterFormat 1995 is the version currently in use. The MasterFormat Task Team was established in 2001.

Rick Heiserman, CSI, CCCA, AIA with Ankrom Moisan Associated Architects and the NW Region Institute Director was the first panelist. He started his discussion with an outline of history and initial reasons for CSI. He explained how the design professional is interested in results only.

MasterFormat 2004 is a new organization of divisions which has been established after 40 years of use of 16 divisions:

First, the number of divisions have been increased from 16 to 50.

Second, some division numbers are reserved for future expansion.

Third, section numbers have been modified for better understanding using 6 digits - three groups of 2 digits with spaces between.

Fourth, divisions 03 to 14 remain basically the same.

The "Front End Documents" are now the "Procurement and Contracting Requirements Group" or "Division 00: Procurement and Contracting Requirements."

The Specifications Groups are:

Division 01: General Requirements Subgroup

Divisions 02 - 19: Facility Construction Subgroup - Specifications for building

Divisions 20 - 29: Facility Services Subgroup - Specifications for mechanical & electrical

Divisions 30 - 39: Site and Infrastructure Subgroup.

Divisions 40 - 49: Process Equipment Subgroup

Robert Dean, AIA, CSI, CCS is President of Building Systems Design, Inc., a national software company. Building Systems Design, Inc. markets Speclink. Speclink accommodates both 1995 and 2004 additions of MasterFormat. Speclink allows the user to decide when to switch.

The Speclink user can open a dialogue box which has global options and applies to the whole system. The user can go from 1995 to 2004 MasterFormat numbers with a mouse click. Specifications sections are cross referenced between 1995 and 2004 MasterFormats. Speclink has mapped all 1995 numbers and titles into all 2004 numbers and titles, so user can go back and forth.

What happens when a user wants to add sections? The user can import sections of 5 digits and give them an unassigned number. Then the user can check where the sections actually fit the best. The sections will then be given their number.

The final panelist was Steve Watt, who is the Estimating Product Director for Timberline Software Corporation. Watt discussed the technical hurdles of designing software. Computer fields had to be long enough to accommodate specifications numbers. Need to understand how software does its sorting. Data base will consist of data which includes spaces and digits. Need to change the data base to new 2004 MasterFormat so old and new projects are in system and can do reports on all this work. Instead of spaces between the pairs of digits, Timberline may use hyphens.

Accounting and Project Management require changes from cost code format to debit base key. Timberline will need data base to do it. Estimating and Bidding are in good shape. Should be able to transition and see both 1995 MasterFormat and 2004 MasterFormat data at the same time. Timberline software has its own cost codes within its program.

Users should run some tests once it gets transitioned. If it doesn't transition the user should contact the vendor. Questions to ask software vendors: "Will software support new 2004 MasterFormat?" and "When will vendors be able to make the change?"

Intel, Port of Portland and The Federal Government have their own software and specifications. GSA and NASA want to use 2004 MasterFormat.

Most Portland specifications writers have agreed to a 14 month time line to implement.

During "Question and Answer" period, Heiserman was asked if Performance Specification (Uni-format) was going to be changed also and Heiserman said it was not part of the work of this Task Team.

Heiserman wrapped things up by stating that they have configured a spot for each construction activity. Users should not fill reserved divisions. Users should be better able to locate information. There is room for future growth.

Other questions included, what if a certain percentage of products have changed into 2004 MasterFormat while others are staying with 1995 MasterFormat? The panelist agreed users should stay with the 1995 Masterformat until 2004 MasterFormat is implemented. There was no change in appearance so it has been hard to figure out which MasterFormat was being used. There is a lot of difference in appearance with 2004 MasterFormat. Other associations are changing in the next year. The only way it will be a problem is if user is not aware of it. Users might want to have a dual numbering system for a while.

THE CONTACTS

PORTLAND OFFICERS & DIRECTORS

President

Cherie McNabb, CSI, CDT.....360-281-1918

President Elect

Dennet Latham, CSI, CCS, AIA503-723-3998

Immediate Past President

Jim Wilson, CSI, CCS, AIA.....503-222-1917

Secretary

Doug Allen, CSI.....360-263-0049

Treasurer

Dennet Latham, CSI, CCS, AIA.....503-423-3998

Executive Director

Jane Phifer, CSI...503-805-2500 or 503- 399-7312
CSI Office - P.O. Box 5116, Salem, OR 97304

Director, Professional 2004-2006

David Roggenkamp, CSI, PE.....360-573-4545

Director, Professional 2004-2006

Russ Pitkin, CSI, AIA.....503-274-5432

Director, Professional 2003-2005

Ray Totten, CSI, CCS, AIA503-635-4425

Director, Industry 2004-2006

Carolyn Miller, CSI, CDT.....503-260-7744

Directory, Industry 2004-2006

Kaye Kloster, CSI503-227-3424

Director, Industry 2003-2005

Denise Carpenter, CSI..... 503-720-3005

COMMITTEE LEADERS

Awards

Denise Carpenter, CSI..... 503-720-3005

By-Laws

Ken Searl, FCSI, CCS.....503-362-3472

Certification

Ray Totten, CSI, CCS, AIA503-635-4425

Editor

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

Education

Jim Wilson, CSI, CCS, AIA.....503-222-1917

Continuing Education

Skip Brown, CSI, CCS.....503-827-0505

Golf Tournament - Co-Chairs

John Armstrong, CSI.....503-579-2477
Erica Bitterman, CSI..... 503-274-2030

Library

Perky Kilbourn, CSI.....503-244-1778

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Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400
Pat Murphy, CSI, CDT.....503-285-4557

Operations Guide

Ken Searl, FCSI, CCS.....503-362-3472

Orientation

Michael Muhle, CSI, CDT.....503-284-6799

Products & Services Fair - Co-Chairs

Cornelia Gibson, CSI, CDT.....503-624-7444
Ellen Onstad, CSI, CDT.....503-225-0361

Programs - Co-Chairs

Jody Moore, CSI, CDT.....503-284-6799
Kaye Kloster, CSI503-227-3424

Publicity

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

Specifiers Share Group & Technical

Fred Herbold, CSI, CCS.....503-443-7389
Isaac Tevet, CSI, AIA.....503-222-1661

Student Affiliate

Rudy Barton.....503-725-3339

Webmaster

Jane Phifer, CSI503-805-2500

Portland Website
www.portlandcsi.org

INSTITUTE DIRECTORS

2004-2007

Tom Dienes, CSI, CCCA

Ph: 541-485-1700 Fax: 541-683-7722
Email: tsdienes@ix.netcom.com
Wildish Standard Paving
PO Box 7428
Eugene, OR 97401

2003-2006

Rick Heiserman, CSI, CCCA, AIA

Ph: 503-245-7100 Fax: 503-245-7710
Email: rickh@amaa.com
Ankrom Moisan Associated Architects
6720 SW Macadam Avenue, Suite 100
Portland, OR 97219

Region Website
www.csinwr.org

REGION COMMITTEES

Academic Liaison

Jeffrey Callahan, CSI, CCCA.....907-786-6425

Awards

John Lape, FSCI, CCS, AIA.....509-624-5600

Certification

Brian Keil, CSI, CCPR206-763-0300

Education

Perry White, CSI, CDT.....360-570-0504

Electronic Communications

Rand New, CSI, CDT.....541-688-5594

Membership

Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400

Planning

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

Publications

Bob Kenworthy, FCSI, CCS, CCCA...253-931-4826

Technical

Marc Chavez, RA, CSI, CCS.....206-622-9450

Treasurer & Secretary

Larry Barger, CSI, CCS360-943-4650

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, 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.....541-687-9600

Idaho, Boise, ID (First Tuesday)

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

January 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					

1/4 CSI Board Meeting
 1/11 CSI Membership Meeting, Billy Reeds
 1/11 **CSI Chapter Meeting, Joint with ASPE**
Annual Economic Forecast with John Mitchell
 1/13 CSI Specifiers Share Group Meeting
 1/27 CSI Specifiers Share Group Meeting

**Mark your Calendars!!!
 The 2005 Portland Products
 & Services Fair**

**May 10, 2005
 Oregon Convention Center**

February 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					

2/1 CSI Board Meeting
 2/8 **CSI Chapter Meeting, Engineering & Architecture**
 2/8 CSI Membership Meeting, Billy Reeds
 2/10 CSI Specifiers Share Group Meeting
 2/24 CSI Specifiers Share Group Meeting

**Mark your Calendars!!!
 Region Conference**

**Aug 25—27, 2005
 Spokane WA - Doubletree**



Portland Chapter CSI
 PO Box 5116
 Salem, OR 97304



Knowledge for Creating
and Sustaining
the Built Environment

The Predicator

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Portland, Oregon Chapter — The Construction Specifications Institute

C.S.I. Portland Chapter
Phone: (503) 805-2500
Fax: (503) 587-0337
E-Mail: jane@portlandcsi.org
Web site: www.portlandcsi.org
Web site: www.csinet.org



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THE TRAM AND SOUTH WATERFRONT DEVELOPMENT

Presented by: Vic Rhodes, Rhodes Consulting,
Matt Brown, PDOT
Tuesday, February 8, 2004



Gordon Davis describes the South Waterfront development and tram project as “a very hybrid kind of project. “It has transportation components; urban design components; it has structural components. It’s hard to say that it has just transportation components.”

The sheer number of engineering and design components along with the design competition, neighborhood controversy, economic and green elements made the South Waterfront and tram project ideal for our presentation for February, Engineering Month.

Our presenters, Vic Rhodes, Rhodes Consulting and Matt Brown, PDOT will describe the advent of the Portland Tram and the unique challenges facing the designers and builders in locating a tramway in the urban environment. The expansion of the Oregon Health Sciences University campus into the South Waterfront District is made possible by connecting the existing campus on Marquam Hill to the district via an aerial tram. The presentation, while focusing on the tram, brings together all the pieces and the vision for South Waterfront as the cornerstone of a new biotechnology quarter. With the immediate goal of creating over 5,000 jobs and 2,500 units of housing this development is key to the future economic vitality of Portland.

Sarah Graham, principal at Angelil/Graham/Pfenninger/Scholl, the selected architect, says “The idea of having an aerial tram as part of the transportation infrastructure is visionary and potentially brilliant.”

Expand your vision of Portland and join us Tuesday, February 8, 2005.

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

Cost: \$30.00 per person with Pre-paid Reservations by February 3, 2005.

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.

1 LU will be available, sign up at the registration desk.

PRESIDENT'S MESSAGE

By Cherie McNabb, CSI, CDT



Hello fellow CSI Members.

I received an email the other day on the Tsunami. I would like you all to read and consider this opportunity.

Here it goes...

As you are aware, the tsunami that swept out of the Indian Ocean has devastated the roads, housing, and public facilities in the

South and Southeast Asia region. The countries affected by the tsunami include:

Myanmar, Thailand, Malaysia, Indonesia, Sri Lanka, Maldives, Bangladesh, India, Somalia, Kenya, and Tanzania.

There is no doubt that CSI members will be involved in the reconstruction that will begin in the next few months, and that the expertise and experience of our members will be invaluable to the effort.

CSI is looking for CSI members who will be involved in the reconstruction or who have expertise to offer to those who will be working on the recovery. We also want to share CSI's expertise with the construction industry and public, which we expect will soon turn their attention to the issue of safe construction in the devastated area.

Do you know any member who:

- is or will be part of the recovery effort
- is looking for information about becoming involved in the recovery effort
- is familiar with the problems the tsunami has caused
- is familiar with the construction practices of this region
- would be interested in writing or commenting for an article about the tsunami reconstruction
- would be interested in speaking at a CSI education event about the tsunami reconstruction
- would be willing to speak to the construction or main-stream media as a CSI representative

If you know of such a member, please contact us, or ask that person to contact us.

Please help us link our experts with the world.

Sincerely,

Joy Davis, CSI Communications Writer

Phone: 800-689-2900

I would also like to talk a bit about the CSI Convention in Chicago.

The 49th Annual CSI Show & Convention

April 19-23, 2005

www.theccsishow.com

On these dates you can go for the education opportunities and walk the trade show. We hope that you will put this on your calendar.

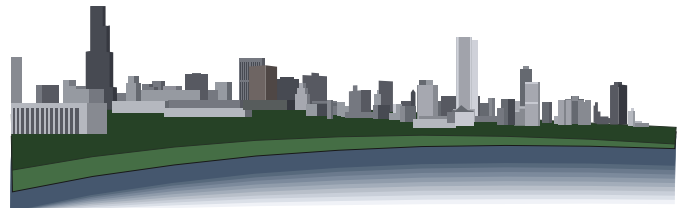
CSI University

April 23-24, 2005

www.csiuniversity.com

This opportunity is for people who want to learn more about the background working of CSI. Anyone interested in joining the board should definitely put this event on your calendar. Give us a call if you are interested in attending. We would like to see you there..

The Deadline for early registration is February 11th, 2005



CHICAGO, IL

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

By: Fred Herboldt, CSI, CCS



Specifiers Share Group Meeting Schedule

What's Up for the Year

Here is a list of meeting topics that are scheduled for 2005:

- Jan 27 - *CSI Manual Of Practice* Discussion, BYOL aka *The Project Resource Manual*
- Feb 10 - Underslab Vapor Retarders: Fortifiber
- Feb 24 - Concrete
- Mar 10 - National Cad Standards & UDS
- Mar 24 - MF 04 Update; meeting with Product Representative
- Apr 14 - Coordinate Hazardous Materials: PBS
- Apr 28 - Operable Panel Partitions
- May 12 - Division 01 Topics
- May 26 - Carpet
- June 9 - Spec writer's coordination with design team
- June 23 - Masonry veneer Systems
- July 14 - Roofing
- July 28 - Batt Insulation
- Aug 11 - Skylights: DeaMor
- Aug 25 - (open)

Please feel free to contact either Isaac Tevet at FFA (503 222-1661) or Fred Herbold at SERA (503 445-7389) if you have suggestions or offerings. Our meetings are held at ZGF's offices, during the noon hour on the second and fourth Thursday of each month.

One of the Share Group's goals for the year is to help prepare the greater Portland building community for transition to MasterFormat™ 2004. CSI's recommendation and our target is to be MF-04 ready by January 2006. It appears that most of the construction industry "stake holders" like Sweets™, RS Means, MasterSpec™ and BSD SpecLink™ will have adopted and published in MF-04 by January 2006.

As the second quarter of 2005 approaches, construction specifiers, cost estimators, and project administrators will target their first projects for MasterFormat™ 2004. Four principles proposed by CSI can help make the transition:

- Educate your staff, consultants and clients.
- Change documents as you use them.
- Change most frequently used documents first.
- Hire a consultant if necessary

As CSI members, we are in the best positions to pass the word and prepare for MF-04 within our firms and to our associated firms. Two important tools are available at the CSI website: www.CSINet.org. Click on "technical" and MasterFormat™.

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 email message to either Fred Herbold (fjherbold@comcast.net) or Itvet (ffadesign.com).

By: Perky Kilbourn, CSI



Note #1

Perky had an interesting discussion about "Drug Testing" or "Testing for Substances of Abuse" at the last CSI meeting.

One CSI member said he didn't check for "substances of abuse" in his employees. The reason was because he didn't

want to know. If his employees were doing a good job, why check them for substances of abuse?

A good question!

My answer - If it is not broken - don't fix it.

So what if your employee smokes marijuana on the weekend but doesn't during the week when working. Your employee might test positive on a random urine drug test on Monday morning.

What does that mean?

Marijuana stays in the system for several days after use and then it is excreted in the urine. A positive test just means that person had smoked marijuana recently not that they are high on marijuana at this particular moment.

Another person at the meeting said he didn't think he needed to worry about his employees using substances of abuse.

Good point

Note #2

I asked Bob Kenworthy Why are you running for Secretary of the Institute Quoting Bob (who approved this message)

"Tremendous opportunity to serve on the executive committee at a time when CSI is in a critical transition period."

Note # 3

Jim Robertson came to the Portland Chapter CSI meeting after a bid opening in Hillsboro. Seems most appropriate in view of the program. (Please see program notes)

With Jim Robertson and Bob Kenworthy on the slate it will be a great opportunity for the Northwest Region to continue in a strong leadership role at the Institute Level.

By: Ray Totten, CSI

I started in CSI in the early 80's when I first started to write specifications. My boss at the time told me to join CSI and study for the CCS exam. He wanted me to set up the master specification for the new MasterFormat system that had just been introduced at that time. I had no idea what I was getting into. Studying for the CCS exam was like studying in a foreign language. There were not many examples of what a section was to look like to use as examples. There were a few others that were trying to study at that time and we formed a study group and tried to figure out what the MOP was about and this new numbering system of MasterFormat.

I had no idea that this request from my boss would have been one of the most important decisions in my career. I have made several friendships through CSI that I will always cherish. I would not have been as successful over the years without these relationships. I have also enjoyed the teaching of the CDT exam class that I have done for so many years. I hope that it has made the exam easier than what I had to learn the material.

I would recommend that all new members get as involved as they can on committees or starting to come to the monthly meetings so they can also get started on building their relationships. I know that if CSI is to thrive in Portland in the coming years as it has for the last 50 years, we will need to have these new members carry the torch. I found out that you get out of an organization what you put into it. If you have been thinking of getting involved, make it a late new years resolution to start today. Get in touch with any of the board members or talk to a greeter at the next meeting and they will help direct you in the right direction.

ED LOY CARTOON

NEW MEMBERS

Portland Chapter CSI Welcomes New Members

The following individuals recently joined the Institute and the Portland Chapter. The information given is according to Institute records (with data in italics from the Membership Committee). Corrections may be made on the Internet at www.csinet.org by following the prompts.

Mr. Mike Arellano, CSI is a Manufacturer's Agent, with G2i, Inc. (*distributors of Gerflor Taraflex*). Address: #126 13023 NE Hwy. 99, Suite 7 Vancouver, WA 98686. Phone: 360-574-4519, Fax: 306-573-2242, e-mail: marellano@g2ii.com.

Mr. Mike Bair, CSI is a Manufacturer's Representative, with Trus Joist- A Weyerhaeuser Business. Address: 8285 SW Nimbus #105 Beaverton, OR 97008. Phone: 503-521-7105, Fax: 503-526-1937, e-mail: bairm@trusjoist.com.

Prof. Jennifer R Caffery, BBA, CSI-I is a Manufacturer's Representative, with Homasote Company. Address: 1710 NE 5th Street, Battle Ground WA 98604. Phone: 503-538-7381, Fax: 503-554-8762, e-mail: jennifercaffery@comcast.net.

Mr. Marty Calderon, CSI is with CWP, Inc./CreteSeal. Address: PO Box 26279 Santa Ana, CA 92799. Phone: 800-278-4273, Fax: 714-429-9895, e-mail: mcalderon@creteSeal.com.

Mr. Peter H. Chun, CSI is a Manufacturer's Representative, with Thermo Industries, Inc. Address: 14164 Fir St. Oregon City, OR 97045-6806. Phone: 503-655-9993, Fax: 503-655-9971.

Mr. Dan K. Cockburn, CSI-I is a Distributor, with Willis Supply (*distributors of Corian*). Address: 10125 SE 132rd Portland, OR 97236. Phone: 503-914-9984, Fax: 503-762-4770, e-mail: danc@willissupply.com.

Mr. Jason N. DeVore, CSI is a Manufacturer's Representative, with Saxton Bradley, Inc. Address: 2609 37th Avenue Camas, WA 98607. Phone: 503-519-6162, Fax: 206-762-0494, e-mail: jasond@saxtonbradley.com.

Mr. Richard 'Larry' Foley, CSI is with Trus Joist A Weyerhaeuser Business. Address: 8285 Southwest Nimbus Suite 105 Beaverton, OR 97008. Phone: 503-520-7124, Fax: 503-526-1937, e-mail: foleyl@trusjoist.com.

Ms. Mary L. Gale, CSI is a Manufacturer's Representative, with Koroseal Interior Products Group, Inc. Address: 5025 Briarwood Circle N. Salem, OR 97303. Phone: 503-551-9104, Fax: 503-375-2124, e-mail: mary.gale@comcast.net.

Ms. Kristin K. Girard, CSI is a Manufacturer's Representative, with LG Solid Source, LLC. Address: 8041 S. 228th, Suite 101 Kent, WA 98032. Phone: 503-314-9727, Fax: 253-234-0270, e-mail: kgirard@lghi-macs.com.

Mr. Chris M. Hartson, CSI is a Construction Manager, with Skanska USA Building Inc. Address: 2555 SW 153rd Drive Beaverton, OR 97006. Phone: 503-641-2500, Fax: 503-643-0646, e-mail: chris.hartson@skanskausa.com.

Mr. Jay A. Hathaway, PE, CSI, CDT is with PSI. Address: 6032 N. Cutter Circle, Suite 480 Portland, OR 97217. Phone: 503-978-4728, Fax: 503-289-1918, e-mail: jay.hathaway.psiusa.com.

Mr. Russell T. Holzinger, CSI-S is an A/E Drafter CAD Operator. Address: 7310 SW 187th Place Beaverton, OR 97007. Phone: 503-961-9010, Fax: 503-961-9010, e-mail: .

Mr. Jeff R. Humphreys, CSI is an Architect, with Group MacKenzie. Address: 0690 SW Bancroft Street Portland, OR 97239. Phone: 503-224-9560, Fax: 503-228-1285, e-mail: jhumphreys@hotmail.com.

Mr. Richard D Jermain, CSI, AHC is a Specifier or Specification Consultant. Address: 6207 NE Alameda Street Portland, OR 97213-4623. Phone: 360-546-2613, Fax: 360-546-2616, e-mail: rick_jermain@irco.com.

Ms. Shelly L. Kimbrell, CSI is a Contract Administrator, with The Gold Medal Development Group, LLC. Address: 7710 NE Vancouver Mall Dr Suite F Vancouver, WA 98662. Phone: 360-397-0351, Fax: 360-254-9364, e-mail: shellyk@goldmedalgrp.com.

Ms. Lynda J. Leask, CSI is an Architect, with Crow-Clay & Associates, Inc. Address: 1901 NW Northrup St. Portland, OR 97209. Phone: 503-499-0040, Fax: 503-499-0041, e-mail: lynda@crowclay.com.

Mr. Stephane Leudet, CSI is a Manufacturer's Agent, with G2i, Inc. (*distributors of Gerflor Taraflex*). Address: 3069 McCall Drive Atlanta, GA 30340. Phone: 800-727-7505, Fax: 770-455-4577, e-mail: info@b2iicom.

Mr. Donald C. Luthardt, CSI, CDT is an Architect, with LSW Architects, PC. Address: 2300 Main Street Vancouver, WA 98660. Phone: 360-694-8571, Fax: 360-694-9510, e-mail: dluthardt@lsw-architects.com.

Mr. John S. McDonald, CSI is a Structural Engineer, with Degenkolb Engineers. Address: 620 SW 5th Ave., Suite 1100 Portland, OR 97204. Phone: 503-223-9932, Fax: 503-242-1780, e-mail: jsm@degenkolb.com.

Mr. Craig McManus, CSI is with Trus Joist. Address: 8285 SW Numbus Suite 105 Beaverton, OR 97008. Phone: 503-520-7104, Fax: 503-526-1937, e-mail: mcmmanuc@trusjoist.com.

Mr. Scott L. Portman, CSI is a Manufacturer's Representative, with Bostik, Inc. Address: 4735 NW Owyhee Court Portland, OR 97279. Phone: 503-706-6181, Fax: 503-905-6174, e-mail: scott.portman@bostik.findley-us.com.

Mr. David A. Roggenkamp, PE, CSI, SE is a Structural Engineer, with Roggenkamp Erickson & Associates,. Address: 10000 NE 7 Ave., Suite 150 Vancouver, WA 98685. Phone: 360-573-4545, Fax: 360-576-7606, e-mail: dave@REAstructuralengineers.com.

Mrs. Shonnie A. Samwel, CSI is with J2 Blue Print Supply Company. Address: 8100 NE St Johns Road B101 Vancouver, WA 98665. Phone: 360-696-1861, Fax: 360-571-9131, e-mail: shonnie@j2b.com.

Mr. Dave M. Schubert, CSI is a Manufacturer's Representative, with Trus Joist. Address: 8285 SW Nimbus, #105 Beaverton, OR 97008. Phone: 503-520-7106, Fax: 503-526-1937, e-mail: schubed@trusjoist.com.

Mr. Edward P. Slavin, CSI is a Manufacturer's Representative, with Northern Illumination Company. Address: 4800 SW Macadam Ave. Suite 115 Portland, OR 97239. Phone: 503-226-3633, Fax: 503-226-3733, e-mail: eslavin@nie-mail.com.

Mr. Fred S. Stephens, CSI is a Manufacturer's Representative, with Mercer Industries. Address: P.O. Box 4700 Beaverton, OR 97006. Phone: 503-526-3675, Fax: 503-643-1992, e-mail: fred.stephens@mercer-industries.com.

Mr. Eric W. Stevens, CSI is a Project Manager, with Walsh Construction Co., Address: 2905 SW First Ave Portland, PE 97201. Phone: 503-222-4375, Fax: 503-274-7676, e-mail: estevens@walshconstructionco.com.

Mr. Patrick C. Stockton, CSI-I is a Material Supplier, with Loewen Window & Door Centre. Address: 1229 SE Grand Avenue Portland, OR 97214. Phone: 503.408.8838, Fax: 503.408.0292, e-mail: patrick@loewencentre.com.

Mr. Raymond R. Taylor, CSI is a Manufacturer's Representative, with Sales Force Northwest. Address: 20959 SW 87th Ct. Tualatin, OR 97062. Phone: 503-692-0242, Fax: 503-691-1503, e-mail: sfnwpdx@msn.com.

Mr. Michael S. Thompson, CSI is a Cost Estimator, with Munters Moisture Control Services. Address: 2240 NE Griffin Oaks Suite #1000 Hillsboro, OR 97124. Phone: 503-693-3111, Fax: 503-693-6345, e-mail: mthompson@munters.com.

Ms. Patricia Vockler, CSI is a Material Supplier, with Industrial Control Development. Address: 13911 NW Third Court Suite E-100 Vancouver, WA 98685-5701. Phone: 360-546-2286, Fax: 360-546-2287, e-mail: icdsales@icdcoatings.com.

Mr. David C. Young, CSI is a Consultant, with RDH Building Sciences Inc. Address: 838 SW First Ave. Suite 330 Portland, OR 97204. Phone: 503-243-6222, Fax: 503-243-5052, e-mail: dyoung@rdhbe.com.

CSI DECEMBER MEETING RECAP

By: *Perky Kilbourn, CSI*

Edits by: *Erica Bitterman, CSI and Ellen Onstad, CSI, CDT*

Marion Hemphill and Larry Peterson were supposed to do the presentation but Larry was unable to come so Marion did both presentations.

Hillsboro is not a bedroom community for Portland. Hillsboro was incorporated in 1876 and in existence since before 1852. The 6th Edition of "Oregon Geographic Names" by Lewis A. McArthur (1992 Oregon Historical Society Press) states on page 412 -413 that Hillsboro was named for David Hill. Hill was at the Champoege meeting on May 2, 1843 and was elected to the three man executive council of 1843-1844. Hill was

". . . chairman of this committee and thus, in effect, Oregon's first elected governor. . . "

Hill settled at the site of Hillsboro at least as early as 1845, at a place which was called Columbia and Columbus. Thus, Hillsboro has never been a bedroom community for Portland. Hillsboro has a diversified economy, of agricultural products, and now its economy includes the electronics industry. Historically Washington County and Hillsboro have a lot of Christmas trees, landscaping materials, nursery products, wine, cane berries, and the like.

In 1970 things changed!

When land use planning came into being (Courtesy of Governor Tom McCall), Hillsboro was ready.

First - Hillsboro had water, thanks to its forward thinking citizens who had "tamed" the Tualatin river earlier.

Second - Hillsboro had one hundred acre zoning. They wanted people and their companies to take a good size piece of land and do something with it. The Japanese came: that is Toshiba came, Fujitsu came, Intel came and others. These companies have grown and prospered. These companies came because "It was the right thing to do". Or another quote "We keep the deal" and "seal deals with a handshake."

Even if we do not expand urban growth boundary Hillsboro is still growing. When high tech "Bubble Burst" a lot of "see through" (empty) buildings occurred. These are now available for new business.

Thirty percent of manpower is non white. This diverse population is not the migrant workers, but Latinos, who are entrepreneurs. The East Indian population is represented in a high number mainly because they are adept at computers.

What Hillsboro needs is affordable housing - medium to low income houses at \$1 to \$1.25 per square foot. Hillsboro is looking for clients who will build affordable housing. The entrepreneurs and their employees now want to have the "American dream" - "a home of their own." (Perky's hypothesis).

Many companies like the stable government of Hillsboro. In the last 80 years there have only been five managers. City government is run like a private sector company. Hillsboro pays its city Managers only \$50 and the mayor gets \$100. Hillsboro has no

general fund debt and has good water so companies are able to "breed off" each other. Hillsboro has a high quality of life and people want to stay so when the "High Tech Bubble Burst" other firms in Hillsboro were able to pick up the unemployed people.

The first thing Marion did was to get Light Rail line extended to Hillsboro. Rezoned city so could accommodate more houses per acres. Thus growth and development occurred within urban growth boundaries. (An aside) Hillsboro stadium won the small steel stadium award recently.

Hillsboro's priorities for the next few years are

1. Fire
2. Health Care
3. Police
4. Parks
5. Water Department

Marion discussed the newest facility in the City of Hillsboro. Greg Specht of Specht Development, with LRS Architects and Skanka USA (formerly Baugh Construction) comprise the team for the Hillsboro Community Center. People who would occupy the building were involved in process of designing the new building. Brick face is the entrance for government - City Hall type activities. Then coming around the building you arrive at the residential side which faces houses. Residential side has a sculpture by a Native American woman who lost her home when Bonneville Dam was built. Wheat board, corn board and mulberry paper were used in building. The building has an open plan except for a separate room for the copy machine which has its own air conditioning system.

The following projects were presented

Kurt Zenner - Mahlum Architect

Kurt presented Liberty High School

Robinson Construction did construction with Cornerstone Development.

Joe Vlastelicia - Lease Crutcher Lewis

Kent Duffy - SRG Partnership

Joe and Kent presented Clean Water Services Building

They are working for Gold LEED Certification on this project

Jan Cenedella - SD Deacon General Contractor

Jan presented the Meier and Frank building (May Company) at Tanasbourne

Kvell Corcoran - Washington DC is Architect

Ron Nichelini - SD Deacon General Contractor

Ron presented the Romano's Macaroni Grill at Tanasbourne

Mulvanny G2 is Architect

Fred Painter - Ankrom Moisan Associated Architects

Fred presented The Amberglen Marketplace

James E John Construction will be the contractor and noted it is 100% leased.

Chris Hartson - a new member of CSI and Portland Chapter, with Skanska USA Building, Inc - formerly Baugh Construction.

Steve Mileham - LRS Architects

Chris and Steve presented Hillsboro Civic Center. This is a four block plaza in the middle of Hillsboro which Perky called "Hillsboro Community Center" in her story.

THE CONTACTS

PORTLAND OFFICERS & DIRECTORS

President

Cherie McNabb, CSI, CDT.....360-281-1918
Forbo Flooring

President Elect

Dennet Latham, CSI, CCS, AIA503-723-3998
CH2M Hill - IDC

Immediate Past President

Jim Wilson, CSI, CCS, AIA.....503-222-1917
SRG Partnership Inc.

Secretary

Doug Allen, CSI.....360-263-0049
Door Security Solutions Pacific NW

Treasurer

Dennet Latham, CSI, CCS, AIA.....503-423-3998
CH2M Hill - IDC

Executive Director

Jane Phifer, CSI.....503-805-2500 or 503- 399-7312
CSI Office - P.O. Box 5116, Salem, OR 97304

Director, Professional 2004-2006

David Roggenkamp, CSI, PE.....360-573-4545
Roggenkamp Erickson & Associates

Director, Professional 2004-2006

Russ Pitkin, CSI, AIA.....503-274-5432
LSW Architects, PC

Director, Professional 2003-2005

Ray Totten, CSI, CCS, AIA503-635-4425
Architects Barrentine Bates Lee

Director, Industry 2004-2006

Bud Henson, CSI,360-600-0804
Custom Window Company

Directory, Industry 2004-2006

Kaye Kloster, CSI503-227-3424
Ford Graphics

Director, Industry 2003-2005

Denise Carpenter, CSI..... 503-720-3005
T & A Supply

COMMITTEE LEADERS

Awards

Denise Carpenter, CSI..... 503-720-3005

By-Laws

Ken Searl, FCSI, CCS.....503-362-3472

Certification

Ray Totten, CSI, CCS, AIA503-635-4425

Editor

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

Education

Dave Roggenkamp, CSI.....360-573-4545

Continuing Education

Skip Brown, CSI, CCS.....503-827-0505

Golf Tournament - Co-Chairs

John Armstrong, CSI.....503-579-2477
Erica Bitterman, CSI..... 503-274-2030

Library

Perky Kilbourn, CSI.....503-244-1778

Membership - Co-Chairs

Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400
Pat Murphy, CSI, CDT.....503-285-4557

Operations Guide

Ken Searl, FCSI, CCS.....503-362-3472

Orientation

Michael Muhle, CSI, CDT.....503-284-6799

Products & Services Fair - Co-Chairs

Cornelia Gibson, CSI, CDT.....503-624-7444
Ellen Onstad, CSI, CDT.....503-225-0361

Programs - Co-Chairs

Jody Moore, CSI, CDT.....503-284-6799
Kaye Kloster, CSI503-227-3424

Publicity

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

Specifiers Share Group & Technical

Fred Herbold, CSI, CCS.....503-445-7389
Isaac Tevet, CSI, AIA.....503-222-1661

Student Affiliate

Rudy Barton.....503-725-3339

Webmaster

Jane Phifer, CSI503-805-2500

Portland Website
www.portlandcsi.org

INSTITUTE DIRECTORS

2004-2007

Tom Dienes, CSI, CCCA
Ph: 541-485-1700 Fax: 541-683-7722
Email: tsdienes@ix.netcom.com
Wildish Standard Paving
PO Box 7428
Eugene, OR 97401

2003-2006

Rick Heiserman, CSI, CCCA, AIA
Ph: 503-245-7100 Fax: 503-245-7710
Email: rickh@amaa.com
Ankrom Moisan Associated Architects
6720 SW Macadam Avenue, Suite 100
Portland, OR 97219

Region Website
www.csinwr.org

REGION COMMITTEES

Academic Liaison

Jeffrey Callahan, CSI, CCCA.....907-786-6425

Awards

John Lape, FCSI, CCS, AIA.....509-624-5600

Certification

Brian Keil, CSI, CCPR206-763-0300

Education

Perry White, CSI, CDT.....360-570-0504

Electronic Communications

Rand New, CSI, CDT.....541-688-5594

Membership

Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400

Planning

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

Publications

Bob Kenworthy, FCSI, CCS, CCCA...253-931-4826

Technical

Marc Chavez, RA, CSI, CCS.....206-622-9450

Treasurer & Secretary

Larry Barger, CSI, CCS360-943-4650

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, 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 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					

2/1 CSI Board Meeting
 2/8 **CSI Chapter Meeting, Engineering & Architecture**
 2/22 CSI Membership Meeting, Billy Reeds
 2/10 CSI Specifiers Share Group Meeting
 2/24 CSI Specifiers Share Group Meeting

**Mark your Calendars!!!
 The 2005 Portland Products
 & Services Fair**

**May 10, 2005
 Oregon Convention Center**

March 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		

3/1 CSI Board Meeting
 3/8 CSI Membership Meeting, Billy Reeds
 3/8 **CSI Chapter Meeting,
 Independent Estimating Services**
 3/10 CSI Specifiers Share Group Meeting
 3/24 CSI Specifiers Share Group Meeting

**Mark your Calendars!!!
 Region Conference**

**Aug 25—27, 2005
 Spokane WA - Doubletree**



Portland Chapter CSI
 PO Box 5116
 Salem, OR 97304

February



Knowledge for Creating
and Sustaining
the Built Environment

The Predicator

Volume 44, Issue # 7

March 2005

Portland, Oregon Chapter — The Construction Specifications Institute

C.S.I. Portland Chapter
Phone: (503) 805-2500
Fax: (503) 587-0337
E-Mail: jane@portlandcsi.org
Web site: www.portlandcsi.org
Web site: www.csinet.org

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BUDGET VS. REALITY: THE NUMBER\$ GAME

Where do the numbers come from?

TUESDAY, MARCH 8, 2005

Every project has one. It defines how much money there is to spend. It is the benchmark against which all designs, dreams and desires are evaluated. It is the BUDGET. Just how important is it? Consider the number of times you have worked long and hard on a project, or a product application, only to have it change or disappear completely. Blame it on the budget. Win or lose, it is all in the numbers.

Where do the numbers come from for these dealmaker or breaker budgets?

On March 8, **Joe Bolkovatz, VP JE Dunn Construction**, will moderate our panel of experts who work with the suspect numbers every day.

General Contractor

Brian Knudsen, Chief Estimator Andersen Construction

Independent Cost Estimator, National Firm

Julian Anderson, President Rider Hunt Levett & Bailey

Independent Cost Estimator, Local Firm

Jim Jerde, Architectural Cost Consultants

MEP Consultant

Bob Schroeder, Glumac International

These gentlemen will give us an inside perspective about the calculations made behind the scenes as they tackle these talking points.

- When is a budget developed and who relies on them?
- Where does an estimator get good information before taking firm bids?
- Who are 'Independent Estimators' and how are they involved in the project?
- How do cost estimators deal with the uniqueness of a project?
- Who decides what stays in and what gets cut from a budget?
- When is a General Contractor paid for budget estimates? What about subcontractors?
- What is the Product Representative's role and how do they access estimators?
- Why are there so many 'bid day surprises' when a pre-bid estimate was done?
- Who takes the heat and what is the penalty when budgets are wrong?

Join us on March 8, with *your* questions and be prepared to participate in a lively interchange about the winners and the losers in the numbers game.

Princeton Building Ballroom — 614 SW 11th Avenue

\$30.00 per person — Sponsor a table for 8 for just \$230.00

5:30 PM Meet Your Colleagues in the Ballroom, 6:30 Dinner, Catered by Jake's

7:00 to 8:30 PM Panel Presentation and Audience Discussion

DEADLINE FOR REGISTRATION IS March 3, 2005

Make your reservation today! Please see the inside for easy registration.

PRESIDENT'S MESSAGE

By Cherie McNabb, CSI, CDT



March is CSI Awareness Month! I would like to give you a little bit of history on our organization.

The post WWII construction boom magnified the affects of the lack of uniformity in specifications. At that time, each government agency and architectural/engineering firm had its own way of preparing specifications. Miscommunication was common, which wasted time and money.

A group of specifications chiefs from several federal government agencies in Washington D.C. began meeting in 1947. They devised a plan to establish an organization where those interested in construction communications could develop a common method of communication within the industry.

The Construction Specifications Institute was incorporated in March 1948.

1961: CSI published the Manual of Practice, and introduced the concept of sections and divisions, logically grouping the many aspects of construction activity into a well-organized, clear and easily recognized framework.

1964: The CSI Format for Construction Specifications, a precursor to *MasterFormat*TM, was published.

1978: *MasterFormat* was published. It is now the standard throughout North America for organizing and presenting construction information.

Construction methods and materials evolve constantly, so CSI revises *MasterFormat* every few years to address these needs. The last revision was in 1995.

MasterFormat 2004 Edition has 50 divisions. The first 14 divisions are for the traditional architectural disciplines and are similar to those in the 1995 edition. Additional new divisions are organized in three series: Facility Services, Infrastructure, and Process Construction.

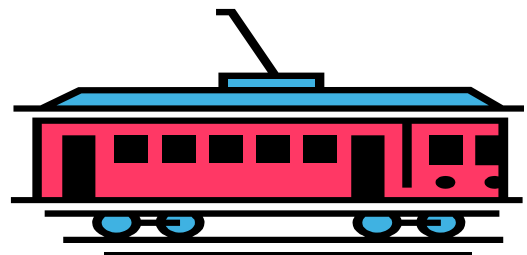
CSI Mission Statement: To advance the process of creating and sustaining the built environment for the benefit of the construction community by using the diversity of its members to exchange knowledge.

CSI Core Values:

- *Foster innovation and creative thinking.
- *Honor and embrace our diversity.
- *Encourage personal & professional growth.
- *Make knowledge-based decisions
- *Strive for cooperative solutions.
- *Promote stewardship of the environment
- *Promote and recognize individual and team excellence.
- *Celebrate camaraderie
- *Keep promises, and trust others will do the same.
- *Value the needs of those we serve.

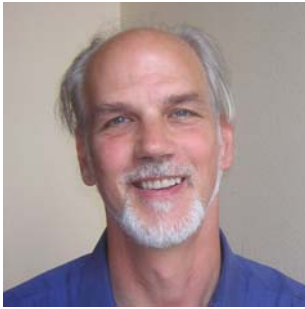
Since 1977, CSI's Certification Program has been the construction industry's best source for continuing education and professional credentials.

This is just a quick overview about the great organization CSI is.. Thank you for belonging and getting involved.



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

By: Fred Herboldt, CSI, CCS



Specifying Solid Waste Diversion for Construction and Demolition Projects

Metro Is Working with Our Industry to Help Set Objectives and Help with Project Specifications

Bryce Jacobson, CSI, is a planner with Metro. His forte is working with the construction and demolition

industry to reuse, salvage and recycle waste. Bryce was our guest at the Share Group earlier this year. He presented alternatives to landfill disposal and ways to get them implemented.

Construction & Demolition Waste – Contributes 20% of our Region’s waste. 60% of that waste comes from demolition. The majority of construction and demolition waste is reusable or recyclable.

Methods for Minimizing Waste – Instead of demolition, relocate buildings (I worked as a House mover in Montana, it’s fun). Instead of demolition, reuse existing structures to greatest extent possible. Instead of demolition, de-construct existing building to salvage and reuse components. Recycle waste from deconstruction and construction. Finally, remember the 3-Rs: Reduce, Reuse and Recycle in that order.

Take Advantage of LEED™ Points: When planning your project and you are determining whether to apply for US Green Building Council’s LEED™ certification, remember that there are 6 credits available in this area alone: 1- Reuse 75% of building shell, 2- reuse 100% of building shell, 3 – Reuse 100% of shell and 50% of non-shell, 4 – Recycle 50% of waste, 5 – Recycle 75% of waste, 6 – Recycle 95% of waste (pre-approved innovation credit). Given the right project, that’s “low hanging fruit.”

Before You Specify, Plan – Evaluate your project for possible waste reduction methods from the start. What existing site elements can be reused? Trees and plants, soil, paving, buildings. Think Relocation and De-Construction. Think of site preparation as a subproject that can generate revenue by selling marketable elements. Survey the project for reusable and salvageable elements. Metro can help put you in touch with specialists in this field. They can help identify costs and savings.

Delete Demolition, Add Deconstruction – What is Deconstruction? The systematic hand or mechanical disassembly of building structures in reverse order of assembly for the purpose of reharvesting the building materials and minimizing the environmental impacts of demolition. What if all the “Demolition” specs were replaced with “Deconstruction” specs? You have to deconstruct to salvage.

What’s Salvageable?

- Finish wood (including flooring)
- Structural wood, steel and steel studs
- Cabinets and casework
- Lighting, electrical and mechanical fixtures
- Doors, door frames, windows and storefront

- Door and window hardware
- Carpet and carpet tiles
- Metal work (grates, grilles, railings)
- Insulation
- Landscape fixtures (benches and awnings)
- Specialties (cubicles, office partitions, writing boards, chutes, toilet accessories, partitions, lockers, postal, etc.)

Waste Management Plan – It’s the key to assuring that debris after deconstruction and waste from construction is properly handled. You should identify what materials to recycle: Wood, Metal, Land Clearing, Drywall, Roofing, Rubble (concrete and asphalt), Glass, Plastics, Carpet and pad, Insulation, and Paint. What materials to salvage. Determine who owns credits, if any.

Waste Management specification should address these topics:

- What’s the goal and how to measure it.
- Identify responsible staff.
- Initial waste management plan to be submitted
- Method of monitoring waste management and costs.
- Final report.
- Multi-lingual signs for recycle and trash, list items allowed.
- Co-mingled waste versus site separated waste.

Future Thinking/Planning – Consider the life of the building you’re designing and specifying today. Will the materials you specify today be reused or recycled at the end of their use? Can your building be easily deconstructed? The good news is that there are more opportunities for reuse and recycling. The bad news is there are more composite materials that are difficult to recycle.

Resources – “Metro Construction Industry Recycling Toolkit” is available on-line or hardcopy ordered at (503) 234-3000. It contains a directory of recyclers, example projects and sample documents.

Metro Regional Environmental Management:

www.metro-region.org/toolkit

Waste spec: www.tjcoj.dst.nc.us/cdwaste.htm#wastespec

City of Portland G/rated Program: www.green-rated.org and www.sustainableportland.org

US Green Building Council: www.usgbc.org

NW Ecobuilding Guild: www.ecobuilding.org

Green Building, A Primer for Builders, Consumers and Realtors: www.nrg-builder.com/greenbld.htm

Environmental Building News: www.ebuild.com/

Sustainable Building Sources: www.greenbuilder.com/general/building_sources.html

Certified Forest Products Council: www.certifiedwood.org

Bring it All Home at the Office – Check out the “Top Ten Business Resolutions” by following Portland OSD home site (above) to “Commercial Programs” to “Recycle at Work” to “2005 List”.

PERKY'S NOTES

By: Perky Kilbourn, CSI



Perky's first note is the connecting of two news articles:

The first article is from the Market Place Section of the Tuesday, January 4, 2005 issue of *The Wall Street Journal*. It is an article entitled "What Did the Animals Know and When Did They Know It?"

The second article is from the Research Vision Section of the December 20, 2004 issue of *The Scientist*. It is an article entitled "Does Your Dog Understand You?"

The first article discusses the fact there were several reports of wild animals running to higher ground before the tsunami hit. The article also states that on the island of Phuket, hundreds of street-savvy stray dogs were caught unaware and some dogs had to be chased inland by the Thais.

The second article discusses psychological similarities between humans and dogs. Dogs are good at understanding someone else's point of view. There are many documentations of dogs saving people. Similarly horses can be trained to help humans. One example I know about is the non-profit organization: "Horses, Adaptive Riding Institute" which helps physically and/or mentally challenged people ride horses on cross country trips..

So what am I trying to show?

There may be a two fold distribution of animals. Those animals which are in fact "wild" and live in an awareness with nature versus those that are somewhat to completely "domesticated" and respond to humans rather than nature. These "domesticated" animals didn't know the tsunami was coming while the "wild" animals knew the tsunami was coming. When I was a girl in Junior High School, my dog didn't know an earthquake was coming. He was awoken by the earthquake, so he backed up against my mother's legs and went "woof" at the room in general.

Perky's Second Note:

The December 2004 issue of ARCHITECTURE had an article "Pro Pro Bono" by Duo Dickinson. Dickinson started his article with the statement that

"Architects often aspire to have the recognition – and pay – of the other licensed professions: law, medicine, engineering."

Dickinson then reported on his architectural practice which has a

"... demographic kaleidoscope of clients ranging from the very rich to the poorest of the poor."

Dickinson presented the concept that architects should do pro bono work if at all possible. Apparently he is not alone and again quoting from his article

"And now a group of architects in San Francisco, Public Architecture, offers a benchmark – "The One-Percent Solution" – proposing that all architectural professionals dedicate 20 hours per year to 'work in the public interest'."

I agree with Dickinson that if at all possible you should dedicate at least 20 hours per year to "work in the public interest" or to help others. I do it through the National Society for Women in Chemistry by sending books and certificates to students with the best projects in Chemistry at approximately 30 Science Fairs around the United States. I also judge projects in Microbiology at the local Science Fair and help students at Benson High School with their Science Fair Projects. I insist that the students at Benson High School not have any Science Fair Projects in Microbiology so I will not have to disqualify myself as a judge. It is fun because the students at Benson High School are doing their projects (on their own time) either before or after school hours.

Perky's Third Note:

In the January, 2005 issue of *The Construction Specifier*, was an article entitled "Understanding the Green Market" by Jerry Yudelson, PE, MBA. On page 53, of this article, was a listing of the top 10 states for LEED project registration. Oregon was third with 76 projects and Washington was fourth with 74 projects. Interesting that California was first with 227 projects.

In case you don't remember - which includes me because I had to look up the acronym – LEED stands for Leadership in Energy and Environmental Design. The LEED green building rating is given to construction projects which are sustainable and meet certain criteria.

Yudelson noted that the West coast states seem to want to have LEED project registration. He suggested :

"Forecast of LEED building registration must be very region specific in the future."

In my opinion the west coast is in fact more interested in sustainability and a "greener" environment. I think buildings that are sustainable and support the environment are a good idea.

CSI GOLF TOURNAMENT

***CSI GOLFERS and SPONSORS
AUGUST 5TH, 2005
LEWIS RIVER GOLF COURSE
BIG THANKS to our early sponsors!!!***

Hanset Stainless – Gold

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Western Construction Services – Hole

McGraw Hill Construction Data– Hole

Willamette Print and Blue Print – Hole

Forbo Industries – Hole

Ford Graphics - Hole

Professional Roof Consultants - Hole

Walsh Construction - KP

We are schedule for the beautiful Lewis River Golf Course on August 5th, 2005 to have a wonderful day in the sun and you are all invited.

We had a terrific time last year and you don't want to miss this year.

I am taking reservation for sponsorship and teams now, please let me know right away so we can get the proper paper work to you and your spot is saved.

We sell out every year and we get booked early, don't get left out and spend the day at your desk when you can be spending a day in the sun, playing golf, eating well and relaxing with us.

Email me at ebitterman@precisionimages.com or call 360-567-2910

CSI JANUARY MEETING RECAP

By: *Perky Kilbourn, CSI*

John W. Mitchell was the speaker at the joint January, 2005 Portland Chapter CSI and ASPE (American Society of Professional Estimators) meeting. Mitchell is the Chief Economist of U.S. Bancorp and also their Western Region Economist. In addition he is the principal of M&H Economic Consultants.

Mitchell's initial slide showed a graph of Revised Non-Residential Construction. It dropped to a negative 30% in Third Quarter 2001 but has come up to zero by First Quarter 2003. It has been unstable with high and low points ever since.

Mitchell saw from 2003 to November, 2004 a Construction Trend which included a percentage increase in Housing, Health Care Facilities and Lodging. While Office and Communications were down and Manufacturing, Education, Sewage and Waste Disposal, and Commercial increased slightly or held their own but Highway and Street were down slightly.

In January, 2005 Oregon is looking at a 4th year of Output Growth, an improving Labor Markets, a changing of Monetary and Fiscal Policy, a weakening of the Currency and Implicit becomes Explicit on Entitlements or to put it another way – we are in a countdown mode until the first “Baby Boomers” retire, and finally “Energy Shock Over?” This is anybody's guess.

The job growth has been steady in Oregon but Oregon is not back to its pre recession levels yet. What is different is that Oregonians do not have a large payment share of income – their debit service burden is low. There is increased employment in Professional and Business Services, Education and Health, Construction, Trade, Leisure and Hospitality, and Government.

The inflation rate has been low, so interest rates are also low and both should stay low if energy prices hold.

The Macro Issues we need to watch are:

First - the amount the government has borrowed from overseas – balance of payments.

Second - the employment and income growth are they going to continue to growth.

Third - whether there is business investment.

Fourth - “Energy Shock?”

Fifth “Terrorist Attack?”

Oregon and Portland tend to follow the rest of the country though Oregon's recovery has been slower than the national. Mitchell's specific predictions for Oregon's Construction Industry are that

First - there will be rising interest rates toward the end of the year,

Second - at least slower residential appreciation! – the housing price bubble has burst.

Third - there is no pent up demand for construction.

Fourth - the peak in 2004 will soften in 2005 (a 5 – 7% decline)

Fifth - The Late Herb Stein's Dictum will occur “If something can't go on forever it won't.”

Sixth - Non-Residential Strengthening with job growth.

The Unresolved issues for Oregonians are Oregon's Fiscal System – Hopefully Oregon's Legislature will face the challenge and suggest a solution.

Entitlement issue on the Table – what to do with payments for the Baby Boomers that retire

Sorting out measure 37 –how much will it cost.

Mitchell closed with a poem but I like his other quote better.

The Late Herb Stein's Dictum
“If something can't go on forever it won't.”

THE CONTACTS

PORTLAND OFFICERS & DIRECTORS

President

Cherie McNabb, CSI, CDT.....360-281-1918
Forbo Flooring

President Elect

Dennet Latham, CSI, CCS, AIA503-723-3998
CH2M Hill - IDC

Immediate Past President

Jim Wilson, CSI, CCS, AIA.....503-222-1917
SRG Partnership Inc.

Secretary

Doug Allen, CSI.....360-263-0049
Door Security Solutions Pacific NW

Treasurer

Dennet Latham, CSI, CCS, AIA.....503-423-3998
CH2M Hill - IDC

Executive Director

Jane Phifer, CSI.....503-805-2500 or 503- 399-7312
CSI Office - P.O. Box 5116, Salem, OR 97304

Director, Professional 2004-2006

David Roggenkamp, CSI, PE.....360-573-4545
Roggenkamp Erickson & Associates

Director, Professional 2004-2006

Russ Pitkin, CSI, AIA.....503-274-5432
LSW Architects, PC

Director, Professional 2003-2005

Ray Totten, CSI, CCS, AIA503-635-4425
Architects Barrentine Bates Lee

Director, Industry 2004-2006

Bud Henson, CSI,360-600-0804
Custom Window Company

Directory, Industry 2004-2006

Kaye Kloster, CSI503-227-3424
Ford Graphics

Director, Industry 2003-2005

Denise Carpenter, CSI..... 503-720-3005
T & A Supply

COMMITTEE LEADERS

Awards

Denise Carpenter, CSI..... 503-720-3005

By-Laws

Ken Searl, FCSI, CCS.....503-362-3472

Certification

Ray Totten, CSI, CCS, AIA503-635-4425

Editor

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

Education

Dave Roggenkamp, CSI.....360-573-4545

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Skip Brown, CSI, CCS.....503-827-0505

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John Armstrong, CSI.....503-579-2477
Erica Bitterman, CSI..... 503-274-2030

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Publicity

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

Specifiers Share Group & Technical

Fred Herbold, CSI, CCS.....503-445-7389
Isaac Tevet, CSI, AIA.....503-222-1661

Student Affiliate

Rudy Barton.....503-725-3339

Webmaster

Jane Phifer, CSI503-805-2500

Portland Website
www.portlandcsi.org

INSTITUTE DIRECTORS

2004-2007

Tom Dienes, CSI, CCCA
Ph: 541-485-1700 Fax: 541-683-7722
Email: tsdienes@ix.netcom.com
Wildish Standard Paving
PO Box 7428
Eugene, OR 97401

2003-2006

Rick Heiserman, CSI, CCCA, AIA
Ph: 503-245-7100 Fax: 503-245-7710
Email: rickh@amaa.com
Ankrom Moisan Associated Architects
6720 SW Macadam Avenue, Suite 100
Portland, OR 97219

Region Website
www.csinwr.org

REGION COMMITTEES

Academic Liaison

Jeffrey Callahan, CSI, CCCA.....907-786-6425

Awards

John Lape, FSCI, CCS, AIA.....509-624-5600

Certification

Brian Keil, CSI, CCPR206-763-0300

Education

Perry White, CSI, CDT.....360-570-0504

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Rand New, CSI, CDT.....541-688-5594

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Planning

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Technical

Marc Chavez, RA, CSI, CCS.....206-622-9450

Treasurer & Secretary

Larry Barger, CSI, CCS360-943-4650

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, 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 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		

3/1 CSI Board Meeting
 3/8 CSI Membership Meeting, Billy Reeds
 3/8 **CSI Chapter Meeting,**
Where do the numbers come from?
 3/10 CSI Specifiers Share Group Meeting
 3/24 CSI Specifiers Share Group Meeting

**Mark your Calendars!!!
 The 2005 Portland Products
 & Services Fair**

**May 10, 2005
 Oregon Convention Center**

April 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

4/5 CSI Board Meeting
 4/12 **CSI Chapter Meeting, Color!!**
 2/12 CSI Membership Meeting, Billy Reeds
 2/14 CSI Specifiers Share Group Meeting
 2/28 CSI Specifiers Share Group Meeting

**Mark your Calendars!!!
 Region Conference**

**Aug 25—27, 2005
 Spokane WA - Doubletree**



Portland Chapter CSI
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Knowledge for Creating
and Sustaining
the Built Environment

The Predicator

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April 2005

Portland, Oregon Chapter — The Construction Specifications Institute

C.S.I. Portland Chapter
Phone: (503) 805-2500
Fax: (503) 587-0337
E-Mail: jane@portlandcsi.org
Web site: www.portlandcsi.org
Web site: www.csinet.org



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Gretchen Schauffler Color Therapy from the Northwest™

Tuesday, April 12, 2005

Not that we all need therapy – but in coping with the abundance of grey Northwest days, we could all use a little more exposure to the richness of color possibilities in our projects.

Gretchen Schauffler firmly believes there can never be enough color in the world. Gretchen was born in San Juan, Puerto Rico, where vibrant Caribbean colors would influence her personal palette for a lifetime. As an artist and Color Consultant, unsatisfied with the color spectrums offered at

the time, Schauffler developed an extraordinary paint palette with livable colors, rich consistency and luminescent finishes under the name of Devine Color, Inc. Her individually designed spectrum pulled together the brilliant colors of her past and the rich elegant tones of her Northwest present to deepen the experience between color and light.

With diverse interests and education experiences in fields of architecture, fashion design, and art therapy, she finally settled on a degree in graphic design from Portland State University. Motivated by her one true passion – color – and taking advantage of her years of art, color, design, and entrepreneurial experience, Gretchen has extended Devine Color® across the Pacific Northwest, United States, Canada and into Ireland. She is currently establishing a color consultant program. As a seasoned speaker on the subject of color, the development of Devine Color®, and her experience as an entrepreneur, she and her company have become the subject of countless articles and national news stories.

So why do we need “color therapy”? Think of your recent projects, and ask yourselves:

- Why trepidation when the first colors were applied to my project's walls?
- Will I get used to seeing that color on such a large expanse of wall area?
- Am I confident that the interior colors really communicate the architectural intent?
- Can choosing the right palette for a project be defined in a process to take the guesswork out?

Come to the meeting and learn the secrets of color from the industry's expert!

The Princeton Ballroom – 614 SW 11th Avenue – Portland, OR

Dinner and Program: \$30 per person, pre-registered by April 7

Or sponsor a table of eight for just \$230.00

Late Registrations and Walk-ins \$40, if space available

5:30 Meet your Colleagues / 6:30 Dinner catered by Jake's

7:00 to 8:30 Program

Assure your spot for this colorful event! See enclosed Event Registration.

PRESIDENT'S MESSAGE

By Cherie McNabb, CSI, CDT



April has arrived and CSI Portland Chapter has many things planned for the months ahead.

This month, April, we have a local entrepreneur, Gretchen Schaffler. She has taken her creative ability, training and persistence to a level in the industry that is well respected. You may recognize the brand Devine Color® that she has created. It is so nice to be able to bring local people to our dinner meetings that have really created success for themselves. She is not only a very creative person but she also has been able to use her sales skills to push her ideas forward.

This meeting allows all the product representatives the opportunity to invite the interior design community as their guests. What a great treat for them to be invited and sit at a table with you. Remember it is only \$230.00 for a table of eight. I highly recommend that you all consider doing this. IIDA members and the designers in general may really enjoy this meeting and it also informs them what CSI is all about too.

May is the yearly ... successful Portland Products and Services Fair.

Date: Tuesday, May 10, 2005
Place: Oregon Convention Center
Time: 1:00pm until 7:00pm.

WE WILL SEE YOU THERE!!!!!!

This year we are so lucky to offer you two top speakers. Both speakers will offer Learning Units and we will have other learning unit opportunities. Look for more information on the programs.

The Portland Products and Services Fair offers over 140 vendors that will be exhibiting new and exciting products and services for you to walk through. You will also have the opportunity to win a weekend at a local resort. To be qualified you need to get signatures from the vendors and turn it into the CSI booth. Good Luck! If you have questions on attending the fair email jane@portlandcsi.org or call her at 503-805-2500. If you are a vendor you can give Jane a call or contact Ellen Onstad at ellen_onstad@mcgraw-hill.com or phone her at 503-224-0361.

You should definitely be a vendor if you have products for construction. This is the show to attend. When the invitations arrive we recommend that you pre-register for the day's events even if you are just attending the exhibit floor. If you get yourself pre-registered your name badge will be waiting for you at the registration counter. This will speed up your entrance into the seminars and exhibit floor. The invitation should be in your mail box and on the website soon.

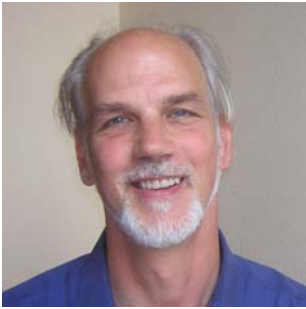
June is going to bring us a great Tour and Awards dinner.

June 14th we will be able to offer a tour into the Wapato Jail. This will be an experience that many have not had the opportunity to experience. I look forward to this event. Not only do we get to tour this jail we also are honoring our volunteers in the Portland Chapter CSI.

Registration information will be in the June issue of The Predicator. We look forward to seeing you at this tour and awards gala.

Don't forget Golf: Date is August 5th at Lewis River Golf Course, Woodland, WA FORE...

By: Fred Herboldt, CSI, CCS



Specifying Vertical Architectural Concrete

When concrete walls and columns will be exposed to view, without plaster or an opaque coating, we have to question our expectations. What can be done to assure that cast in place vertical concrete will have a pleasing, consistent appearance without applying a coating or mechanically altering (blasting or hammering) the surface?

We invited representatives of the concrete industry to tell Portland specifiers how we might improve our specs to achieve acceptable architectural concrete. Dave Germer from Glacier Northwest lead the presentation by showing common problems and explaining solutions. Jim Hirte, CSI, CDT, of Colamette Construction filled in with practical field experience. And Jeff Marty from WR Grace focused on self consolidating concrete (SCC). There are definite items that can be added to our concrete specs to improve architectural concrete. Most of these items add cost, so they have to be evaluated with the budget.

Architectural Concrete Mix: This is really a performance specification. Structural engineers establish the minimum strength requirement. We need to control aggregate size, water-cement ratio, and require admixtures to achieve an optimum plasticity or slump. Specify water-cement ratio of 0.45 or less and require a high-range water reducing (HRWR) admixture per ASTM C 494 type F or G. Require HRWR added and mixed at the site. Consider no air entraining admixture or at the most 1.5% air by volume. In our mild climate zone, freeze-thaw is not a great concern, even for exterior walls. Vibrating during placing can produce large areas of bubbly concrete if there is too much entrained air. Specify maximum aggregate size, usually 1/2 inch or less. Even 3/4 inch aggregate can prevent good consolidation and flow around reinforcing. Your slump should be between 7 and 10 inches, but not more. Finally, in warm weather, require either ice water or a retarding admixture to prevent early setting between lifts.

Other Mix Considerations: Fly ash is commonly specified between 20% to 35% for LEED™ recycled material credit. Color powder or liquid is available for integrally colored concrete. Lighter colors require white cement, so be sure to investigate what's required to get the desired results. Admixtures that produce integrally waterproof concrete are available, and they also produce expensive concrete.

SCC: Self Consolidating Concrete is defined as a concrete mixture that can be placed purely by means of its own weight with little or no vibration. The advantages using SCC is virtual elimination of rock pockets, bug holes, and effects of a bad vibrator operator. The secondary advantage is getting rid of the vibrator operator and associated labor cost. Disadvantage is about 40% increased concrete cost and more expensive, stronger forms designed for full liquid head. When specifying, start with the definition above. Specify your water-cement ratio at 0.36.

Specify the HRWR based on polycarboxylate and complying with ASTM C 1017 Type 1 and 2 (by WR Grace or MasterBuilders). Maximum aggregate size should be 3/8 inch or "pea gravel". Require field slump flow test on a smooth level surface, producing between 24 and 28 inch round flow. The standard slump cone in ASTM C 143 is used, but the slump is so great to be meaningless, so the spread of the mix is measured. Fly ash is compatible in this mix.

Quality Assurance: There are three items to include in Part 1. Require a sample where color or surface texture is important. Definitely specify a mock up. Use a wall that will be concealed for an in-place mock up, if possible. Require all the same products and techniques as for the final construction. Specify acceptance criteria like, "voids no greater than 1/2 inch any dimension at frequency no greater than 3 per any 4-by-4 foot area." Always have a pre-installation meeting for architectural concrete. Consider requiring the entire crew attend. Review critical concrete placement issues, formwork tightening and sealing, protection prior to placing, importance of proper consolidation, and special services of the Owner's testing agency. Review the mock up and acceptance criteria.

Formwork: Smooth formed architectural concrete requires at least MDO or HDO form panels with sealed edges. These are available in 10-foot lengths. Remember, panel joints will be visible. Sharp 90-degree corners are very difficult to achieve; normally specify chamfer or radius outside corners. The form release agent can affect the surface of concrete, so require a test sample. Remember, "board formed concrete" is produced by lining the forms (plywood panels) with boards so the concrete paste will not leak.

Placing Concrete: If the bottom of the architectural concrete wall will be exposed, consider requiring 1 to 1-1/2 inch grout in the bottom just prior to placing concrete. You can also specify the rate of pour and maximum length of pour to avoid that layered look.

Standard References: We specify that work shall conform to ACI 301 and ACI 117 which should prevent the following mistakes and effects. The forms were not tight, sealed or strong enough, cement paste leaked out and there are rock pockets. The reinforcing got hot and created white shadows on the concrete surface. The concrete was not vibrated enough - voids. It was vibrated too much - bleeding, segregation and bubbles. Consider recommending that the Owner employ a concrete construction expert to perform additional field quality control for architectural concrete.

Patching and Finishing: To be realistic, we should consider correcting minor defects in architectural concrete. Be sure to specify the acceptable dimension of surface irregularities, for example 1/8 inch (ACI 347R Class A). Accept that some patching will be inevitable. Specify that the same cement-sand mixture used in architectural concrete be delivered in sealed containers and used for patching. Put that in Part 2 under "Patching Mixture" and refer to it in Part 3.

Thanks to Dave, Jim and Jeff for this information. I hope we see some very handsome architectural concrete in Oregon.

PERKY'S NOTES

By: Perky Kilbourn, CSI



It is sort of fun to write these notes especially when we (yes, Lee got to go too) just got back from a two weeks vacation in Florida which included a Caribbean Cruise.

Note #1

We started on February 2, 2005 by driving to the Red Lion Hotel at Seattle Airport. We spent the night at the Red Lion Hotel and

the next morning, Anne Whitacre, CSI, CCS drove us to the airport. Our flight was uneventful and we arrived in Florida on time only to discover that the oxygen provider had misread the order for oxygen so there was no oxygen to greet us at the airport in Florida. Fortunately, Alaska Airlines had given me more oxygen than I really needed for the flight. Alaska Airlines let me take the oxygen tank from Alaska Airlines to the resort where we were staying before our cruise. We promised to bring the oxygen tank back when we were scheduled to take our return flight in two weeks. Alaska Airlines decided all was "O.K." and we could have the oxygen tank. It is really interesting that the airlines handle and bill for oxygen differently. Alaska Airlines billed for each oxygen tank and they thought it was a three oxygen tank flight. I only used one tank and had just started on the second tank when we landed in Florida. United Airlines bills for each flight segment, no matter how much oxygen will be used.

We purchased the picture of Lee and I getting onboard the Carnival Legend on February 7, 2005. We were supposed to leave Port Everglades at 4 pm which I think was fairly accurate. Once we were sailing there was the mandatory safety information which was sort of like the airline safety information. We then relaxed until dinner when we met our table mates. They were a neat Catholic couple who had each lost a spouse through death and were going to be married in May. We also figured out which shore trips we were going to take.

We arrived at St. Maarten after two days at sea. I spent these two days resting and reading Romance Novels from the Ship's Library as well as books and magazines which I had brought. I figured I should enjoy my vacation and reading is something I enjoy doing especially if I am reading something that does not have anything to do with microorganisms or construction or substances of abuse. I got so involved in one of these "Romance Novels" that I had to stay up till almost 2 A.M. to finish getting it read. Fortunately, I did not have to get up early the next morning so it was all right.

On February 10 we took a shore excursion around the island of St. Maarten and then we had lunch at a restaurant on the beach. I am always amazed at how warm the Atlanta Ocean is compared to the Pacific Ocean. It has to do with the currents and the fact that the currents are going from South to North in the Atlanta Ocean and from North to South in the Pacific Ocean. I enjoyed getting wet because the water was not cold.

On February 11 we visited the island of St. Lucia. We took a guided tour around the island and learned quite a bit about its history and also how to do Silk Screening. I found it fascinating and purchased a place mat for Anne Whitacre as a thank you for

her "pick up and delivery" at the Seattle Airport. I learned that the place mat was fifty cents more at the point of silk screening than at the shops next to the ship. It was not too difficult to convince Lee that we could afford to support the "local economy" and buy the item from the point where it was silk screened. It would be interesting to learn why the difference in pricing besides just hoping that the "local economy" did get some benefit.

On February 12 we visited the island of St. Thomas. We toured the beautiful botanical gardens at a home on the island. We could then go back to the Ship or relax in the hot tub and/or gardens at the home. I spent the whole afternoon in the beautiful gardens at the home reading.

On February 13 and 14 we were at sea on our way back to Florida. As a Carnival Cruise Ship there were from many different countries represented by the crew. The Team Head Waiter who served us was Roel from Philippines and his assistant was Sergiu from Romania. On February 15 we arrived back in Florida and returned to the resort. I then read in the sun and relaxed until we left on Friday, February 18. Anne Whitacre again met us at the airport in Seattle and rode with us back to the Hotel. Lee and I drove back to Portland on Saturday, February 19 for a noon meeting of the Tigard Grange. We then unpacked and did laundry etc. A most enjoyable holiday though we did miss the Portland Chapter CSI meeting – sorry!

Note #2

My second note is about an article on another type of Carnival which is Rio De Janeiro's Carnaval. This article was published in January/February 2005 issue of "American Scientist" and discusses the intersection of science and popular culture in Brazil. The "American Scientist" is the official journal of Sigma Xi (is a National Honor Society for Scientists & Engineers). Apparently a science theme was proposed for the February 22, 2004 parade entry of the Unidos da Tijuca - one of the samba schools. The title was "The Dream of Creation and the Creation of the Dream: Art and Science in the Age of the Impossible." Apparently, Brazilian scientist's were supportive of this incredible opportunity for science to interact with popular culture. Quoting from the article ". . . The United States equivalent might be a science-themed halftime show at the Super Bowl. . . In some instances the, scientific authority was the butt of the joke. . . The other scientists and I (author of the article Roald Hoffmann) were dressed as Alberto Santos-Dumont. Santos-Dumont was the revered Brazilian aviator who in Paris, pioneered dirigible airships and lay claim to the first sustained, heavier-than-air flight. . . The star of the parade was one of Barros's floats called Criacao da Vida or Creation of Life. One hundred twenty-three young people, spray-painted blue-black, were strapped onto this pyramid, and they performed a spectacular choreographed dance as it moved through the Sambodromo. At times their arms and bodies evoked the helices of DNA and proteins, at times they just celebrated life. To the surprise of the Carnaval, Unidos da Tijuca won second place. It had never ranked higher than fifth in the top league. Much of the credit goes to Paulo Barros's theme and the Casa da Ciencia's efforts. Science will be back at Carnaval in the years to come". Roald Hoffmann is Professor of Humane Letters at Cornell University.

MEMBER NEWS

By: Russell L. Pitkin, AIA, CSI, LEED AP



Searching for the optimum is a circular journey against time and budget for those in the construction industry continuously seeking synergies in design and products to find that combination which complements, provides sustainability and

yields the best value while struggling to avoid compromising concept for the sake of budget. It's that search for balance that creates the need for innovative new products to meet the demanding challenge of structures that push the technological envelope of construction materials and methods. Knowledge is everything in this quest against time and budget in order to avoid those two dreaded words "Value Engineering."

Architects, it seems, by the nature of what they do, are required to know a little about a huge number of things, but it is an impossibility to know everything. So how does one stay attuned to the latest industry information on products while working as hard as possible against time and budget? One answer is to burn valuable time on that vast resource, the Internet, researching products. A smarter answer is having access to an encyclopedia of product experts for every component you are considering. An encyclopedia that is always up-to-date on the latest advancements and can give you invaluable insights on costs, quality, durability, sustainability, and life cycle information that will fit the needs of your project specifically so that you may strike that project balance and avoid "Value Engineering."

Does this sound expensive? The cost is more affordable than you think. All of this, and much more can be available to you when you belong to a professional organization like The Construction Specifications Institute (CSI). I am a newcomer to CSI, but already it has opened up the opportunity to explore project possibilities with industry experts on products under consideration.

Not so very long ago, when conversation turned to specifications, one could see my eyes begin to glaze over. Admittedly specifications are not everyone's favorite and can be fairly dry reading material for most, myself included, but as a seasoned architect, in taking a CSI class, even an old dog can learn new things at this very important time as the industry changes over to the new MasterFormat 2004. The class, which provides AIA-CEU credits, has provided me with a refresher course in proper execution of documents that are an important and integral part of a project's construction document package. I have learned new things that have changed through the years, relearned things I forgot, and even learned a few things I had been doing incorrectly over the years.

I have been involved with the CSI Portland Chapter for a year now. I am a professional member on the Board of Directors, am taking a CSI class, am registered for the CDT certification test, and have been helping with the planning of the 2006 Northwest Region Conference that will be held in Portland during the first week of October of that year. I have enjoyed the monthly meeting social hours and the after dinner speakers and topics, which provide AIA-CEU credits. There are also a few major local construction project tours each year which are always fun.

CSI is an excellent complimentary organization to AIA and the two groups have jointly sponsored many events. CSI has provided me the opportunity for continued professional development and associations made in my short time as a member have proved to be a tremendous time saving resource, opened new design opportunities I was not aware existed, but most of all, it has given me access to a great group of people I am proud to call friends.

Russ Pitkin is an architect with LSW Architects and is their Portland Office manager. Russ and Mary, his wife of 26 years, live in Portland, and they have a son, Phillip, and daughter, Madeline. Russ was a committee member for an inner city Boy Scout troop for many years, enjoys family activities, outdoor activities, fishing, and scuba diving.

PORTLAND PRODUCTS AND SERVICES FAIR

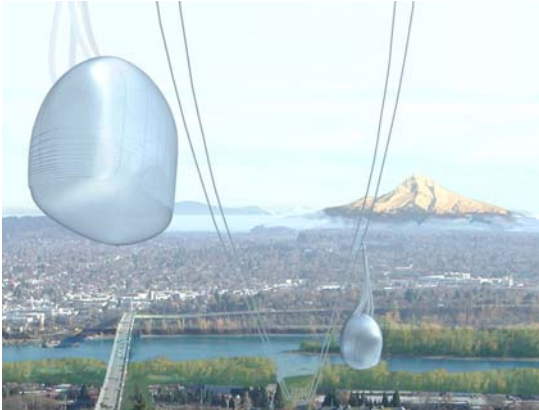
We want to invite you to register now for the 31st annual Portland Products and Services Fair presented to you by CSI (Construction Specifications Institute), IIDA (International Interior Design Association), AIA (American Institute of Architects), AGC (Association of General Contractors) and IFMA (International Facilities Managers Association) a strong team of construction related associations. The fair is scheduled for Tuesday, May 10, 2005 from 1:00 pm - 7:00 pm at the Oregon Convention Center - 777 NE Martin Luther King Jr Blvd. Portland, OR Exhibit Hall 'A'.

? About general vendor and booth information: Ellen Onstad 503.225.0361 email: ellen_onstad@mcgraw-hill.com

? About booth payments: Jane Phifer 503.805.2500, CSI Office, PO Box 5116, Salem, OR 97304 email: jane@portlandcsi.org

? About educational seminars: Cornelia Gibson 503-624-7444 email corneliag@verizon.net

By: Doug Allen, CSI



What is it? It's not a Bird, it's not a Plane, and it's not a Gondola. It's the Portland Aerial Tram! Guests and members in attendance were mesmerized. The detailed presentation brought

us up to date with the planning of the Portland Aerial Tram and South Waterfront District projects. Our speaker for the evening was Matt Brown a project manager with the City of Portland's Office of Transportation, where he is responsible for the Portland Aerial Tram project.

The show started with slides of Northwest area nature settings, our unique communities, and an explanation outlining the design goal of the project was to integrate the tram into the community with as little impact as possible. We were introduced to the following key goals of the Metro 2040 Plan which helped guide the projects; "establish urban growth boundary, protect farmland and natural areas, create effective transportation network, protect and enhance open space, roadmap for how the region will grow, and tension – density vs. sprawl." Moving on to the lay of the land, we were shown before and after images illustrating that much of the planned South Waterfront District will be on land that had been in filled over the years.

With the goal of world class academic/research, the partnership of OHSU, OGI, PSU, and OSU will drive much of the development. The central district starts out with 5,000 jobs and 2,700 housing units and at build out over the next 20 years with 10,000 jobs and 5,000 units of vital mixed use and active vibrant neighborhoods, parks with a river presence and a goal of 150' greenways at the rivers' edge.

OHSU being the largest employer in the city and offering a large investment in the project, transportation to the campus was vital. Several means of transportation were evaluated. However, the ability of the Aerial Tram to work with ground transportation, silently carry up to 80 passengers from the waterfront to OHSU in about 4.5 minutes in virtually any weather condition was a big factor in the decision to finalize on a tram. A design competition was held in 2003 with a project vision; "the creation of connections, linking communities through transportation infrastructure, public space, landscape and sustainable design." The final Tram design has 2 stationary track ropes and 1 circulating haul rope. It travels at typical heights of 80'-85', while putting 1,000,000 pounds of force on the buildings it serves.

I am sure we would enjoy a CSI tour of this completed project.

The Portland Products & Services Fair committee is excited to announce the following keynote speakers.

Vivian Loftness, FAIA

Professor and Department Head, School of Architecture, Carnegie Mellon University

Vivian Loftness is an internationally renowned researcher, author and educator with over thirty years of focus on environmental design and sustainability, advanced building systems and systems integration, climate and regionalism in architecture, as well as design for performance in the workplace of the future. Supported by a university-building industry partnership, the Advanced Building Systems Integration Consortium, she is a key contributor to the development of the Intelligent Workplace - a living laboratory of commercial building innovations for performance, along with authoring a range of publications on international advances in the workplace.

She has served on five National Academy of Science panels as well as being a member of the Academy's Board on Infrastructure and the Constructed Environment, and given three Congressional testimonies on sustainable design. Her work has influenced both national policy and building projects, including the Adaptable Workplace Lab at the U.S. General Services Administration and the Laboratory for Cognition at Electricity de France.

Rob Wellington Quigley, FAIA

Rob, a native Californian, served as a Peace Corps architect in Chile after his graduation from the University of Utah in 1969. He has been active with his own firm since 1974 and has earned over sixty awards for design excellence from the American Institute of Architects.

Current work focuses on community participation design, such as the San Diego New Main Library and the Golden Hill Community Center. Rob's landmark Baltic Inn is considered responsible for starting the national trend in new single room occupancy hotels. 202 Island Inn, a more recent single room occupancy hotel, was selected by Time as one of the "Ten Best Designs of 1992" and received a national AIA Honor Award. Recent honors focus on the firm's work with sustainable design.

Philosophy - we are interested in the irony of today's architectural paradoxes such as "permanence" in an essentially transient society, "timelessness" in a society that values short-term gains above all else, "identity" in an era of instant global communication, "spirituality" in a rational society, and relevance of "craft" in a world that considers art a luxury.

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Forbo Flooring

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Dennet Latham, CSI, CCS, AIA.....503-423-3998
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Executive Director

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CSI Office - P.O. Box 5116, Salem, OR 97304

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Certification

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Editor

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

Education

Dave Roggenkamp, CSI.....360-573-4545

Continuing Education

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Publicity

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Specifiers Share Group & Technical

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Isaac Tevet, CSI, AIA.....503-222-1661

Student Affiliate

Rudy Barton.....503-725-3339

Webmaster

Jane Phifer, CSI503-805-2500

Portland Website
www.portlandcsi.org

INSTITUTE DIRECTORS

2004-2007

Tom Dienes, CSI, CCCA
Ph: 541-485-1700 Fax: 541-683-7722
Email: tsdienes@ix.netcom.com
Wildish Standard Paving
PO Box 7428
Eugene, OR 97401

2003-2006

Rick Heiserman, CSI, CCCA, AIA
Ph: 503-245-7100 Fax: 503-245-7710
Email: rickh@amaa.com
Ankrom Moisan Associated Architects
6720 SW Macadam Avenue, Suite 100
Portland, OR 97219

Region Website
www.csinwr.org

REGION COMMITTEES

Academic Liaison

Jeffrey Callahan, CSI, CCCA.....907-786-6425

Awards

John Lape, FSCI, CCS, AIA.....509-624-5600

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Education

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Technical

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Treasurer & Secretary

Larry Barger, CSI, CCS360-943-4650

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, 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 2005

Sun Mon Tue Wed Thu Fri Sat

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17	18	19	20	21	22	23
24	25	26	27	28	29	30

4/5 CSI Board Meeting
 4/12 CSI Membership Meeting, Billy Reeds
 4/12 **CSI Chapter Meeting, Color!!**
 4/14 CSI Specifiers Share Group Meeting
 4/28 CSI Specifiers Share Group Meeting

**Mark your Calendars!!!
 The 2005 Portland Products
 & Services Fair**

**May 10, 2005
 Oregon Convention Center**

May 2005

Sun Mon Tue Wed Thu Fri Sat

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5/3 CSI Board Meeting
 5/10 CSI Membership Meeting, Billy Reeds
 5/10 **CSI Chapter Meeting,
 Portland Products & Services Fair**
 5/12 CSI Specifiers Share Group Meeting
 5/26 CSI Specifiers Share Group Meeting

**Mark your Calendars!!!
 Region Conference**

**Aug 25—27, 2005
 Spokane WA - Doubletree**



Portland Chapter CSI
 PO Box 5116
 Salem, OR 97304



Knowledge for Creating
and Sustaining
the Built Environment

The Predicator

Volume 44, Issue # 9

May 2005

Portland, Oregon Chapter — The Construction Specifications Institute

C.S.I. Portland Chapter
Phone: (503) 805-2500
Fax: (503) 587-0337
E-Mail: jane@portlandcsi.org
Web site: www.portlandcsi.org
Web site: www.csinet.org

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2205 Portland Products & Services Fair

May 10, 2005 1:00 PM to 7:00 PM

Vivian Loftness, FAIA

Productivity, Health and Environmental Benefits of High Performance Materials and Assemblies



Vivian Loftness, is an internationally renowned researcher, author and educator with over thirty years of focus on environmental design and sustainability, advanced building systems and systems integration, climate and regionalism in architecture, as well as design for performance in the workplace of the future.

Supported by a University-Building Industry Partnership, the Advanced Building Systems Integration Consortium, she is a key contributor to the development of the Intelligent Workplace - a living laboratory of commercial building innovations for performance, along with authoring a range of publications on international advances in the workplace.

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7:00 pm - 8:30 pm, Oregon Ballroom - Admission - \$20.00 Credits: 1.5 CEU

Rob Wellington Quigley, FAIA

In Search of the Present: A Case for Enlightened Provincialism

Rob, a native Californian, served as a Peace Corps architect in Chile after his graduation from University of Utah in 1969. He has been active with his own

firm since 1974 and has earned over sixty awards for design excellence from the American Institute of Architects. He was named a fellow of the American Institute of Architects in 1991 and received the Firm Award from the AIA California Council in 1995.

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Rob was honored as the first adjunct professor appointed to the new School of Architecture at the University of California, San Diego. He was a visiting design professor at Harvard University's Graduate School of Design in 1991, at the University of Texas at Austin in 1994, and the University of California at Berkeley in 1997 and 1998.

Current work focuses on community participation design, such as the San Diego New Main Library, and energy efficient buildings, such as San José's West Valley Branch Library. Rob's landmark Baltic Inn is considered responsible for starting the national trend in new single room occupancy hotels. 202 Island Inn, a more recent single room occupancy hotel, was selected by Time as one of the "Ten Best Designs of 1992" and received a national AIA Honor Award. Recent honors focus on the firm's work with sustainable design.



PRESIDENT'S MESSAGE

By Cherie McNabb, CSI, CDT



May has arrived.. And so has the Annual Portland Products and Services Fair.

Date: Tuesday, May 10, 2005

Place: Oregon Convention Center

Time: 1:00 pm until 7:00 pm.

WE WILL SEE YOU THERE!!!!

RIGHT!

We will start of the fair by opening up the exhibit hall at 1:00 pm. We have over 120 vendors will be exhibiting new and exciting products and services for you to walk through until 7:00 pm. The exhibit hall is no cost to you. FREE!

We also have opportunities for you to earn a few credits. Beginning at 1:30 pm is our first seminar.

Rick Heiserman of Ankrom Moisan will be presenting MasterFormat 2004. This is something that is in all our futures and I highly recommend this seminar. The cost of this class is \$10.00 and yes this includes 1.5 CEU.

We are lucky to offer not just one keynote speaker but two top Speakers. Both speakers will offer Learning Units as well.

Rob Wellington Quigley's topic is In Search of the Present: A case for Enlightened Provincialism. He will begin at 3:30 pm and the cost will be \$20.00.

Vivian Loftness will begin at 7:00 pm. She will be addressing the productivity, health and environmental benefits of using high performance materials and assemblies in buildings. Cost \$20.00.

Buy all three seminars and get a discount. Give Jane a call.

You will also have the opportunity to win prizes throughout the day and a weekend at a local resort. To be qualified for the weekend getaway you will need to get 30 signatures on the bingo card from the vendors and turn it into the CSI booth # 12. Good Luck. If you have questions on attending the fair email jane@portlandcsi.org or call her at 503-805-2500. Check out the website too www.portlandcsi.org

We do recommend that you pre-register even if you are only attending the exhibit floor. Pre-registration will assure your name badge will be waiting for you at the registration counter. This will speed up your entrance into the seminars and exhibit floor. You should have your invitation by now. If you have not received it please give Jane a call or go to the website.

June is going to bring us a great Tour and Awards Dinner.

June 14th we are offering a tour into the Wapato Jail. This will be an opportunity many of us may never otherwise experience. I so look forward to this event. Along with the tour we will be honoring our volunteers in the Portland Chapter CSI.

Registration information will be in the June issue of The Predicator. We look forward to seeing you at this tour and awards gala.

Golf: Date is August 5th at Lewis River Golf Course, Woodland, WA. Info: ebitterman@precisionimages.com

One additional note: CSI membership dues will be increasing for new enrollment forms received after May 1, 2005. Renewal dues will increase beginning July 1, 2005. Just make a note of it. Dues amounts will be included in the next issue of The Predicator.

map of convention center Hall A

PERKY'S NOTES

By: *Perky Kilbourn, CSI*



Perky's Note #1

The Environmental Defense recently published a discussion of Eight Myths about Global Warming. They are as follows;

The science of global warming is uncertain – not really – the debate is over the amount of warming not whether warming will occur.

The warming in the past century has been caused by natural factors

such as changes in sunlight, not by the increase in greenhouse gases from human activities – natural factors alone can not explain the warming observed in the last 30 years or so.

Recent extremes weather events such as the European heat waves during the summer of 2003 are purely random events and have no link to climate change. - the global average temperature has definitely increased significantly over the past century.

Satellite and surface observations disagree as to the magnitude of the warming over the past two decades. – the difference between climate models and satellite measurement is decreasing.

The warming observed for the past century has been caused by urbanization (urban heat island effect), not greenhouse gases. – it has yet to be determined if urbanization effects global and regional temperature trends.

Capping greenhouse gas emission will cost jobs and stifle the economy. – the emission target; the timing for reduction and the means of implementation will effect the greenhouse gas reduction program especially for inefficient, highly polluting businesses.

Society can easily adapt to climate change – and may even benefit from it. – the prevailing view suggests that negative effective may be more significant than the positives effective.

U.S. action is to curb warming won't make much difference without simultaneous commitments by countries in the developing world. – The U.S. should assume responsibility for the effect the actions of the U.S. has on global warming and how the actions will be interpreted by the developing world.

Note #2

Answers to these “Myths” may be provided by future generations such as some of the High School Students with Science Fair Projects at the Intel Northwest Science Expo. problems may occur because

First students don't change from studying their subject matters because of career requirements rather because of intellectual appeal, academic adventure, excitement and curiosity.

Second teaching teachers to teach is important. Teachers should encourage curiosity, excitement and experimentation in their students.

Third is that critical thinking needs to be encouraged in science classes.

Note #3

One of the organizations Lee and I support is Union of Concerned Scientists. It is suggesting Water-Wise lawns – that is planting trees, shrubs and perennial flowers and low-growing ground cover rather than an unbroken sea of grass.

Note #4

According to AARP there is a “hidden epidemic” of older drug addicts. The most commonly abused drug is probably alcohol. Older patients may become addicted to prescription and non-prescription pain killers. are increasingly significant – especially among older individuals.

Note #5

The Mary Alice Hutchins FCSI, and FAIA Scholarships are going to be awarded again this year. The names and accomplishments of the winners will be announced

MASTERFORMAT DIVISION TITLES

PORTLAND PRODUCTS & SERVICES FAIR SPEAKERS

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Productivity, Health and Environmental Benefits of High Performance Materials and Assemblies



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Richard Heiserman, CSI, CCCA, AIA

Introduction to MasterFormat - 2004



MasterFormat is the organizational standard for specifications - the written instructions for construction to include virtually all commercial and institutional building projects. MasterFormat 2004 Edition is the most significant revision of MasterFormat in its 40 year history and addresses the needs and requirements for all stakeholders: Building Owners, Architects, Facility Managers, Contractors and Specifiers. Richard Heiserman is a licensed Architect for Ankrom Moisan Associated Architects. He has a Bachelor of Architecture Degree from the University of Oregon and has over 25 years experience in the construction industry. He has been a member of Construction Specifications Institute since 1986 and is currently serving on the Institute Board of Directors representing the Northwest Region.

1:30 pm – 3:00 pm, Room A105– 106 Admission - \$10.00 Credits: 1.5 CEU

CSI MARCH MEETING RECAP

By: Perky Kilbourn, CSI

Budget vs. Reality: Where do the numbers come from?

Moderator Joe Bolkovatz started by asking members of the panel to introduce themselves. Joe started the discussion by asking

“Who are Independent Estimators and how are they involved in the construction community?”

Independent Estimators can be private firms providing budget and estimating assistance to the building community. These private Independent Estimating Firms can be either local or national firms. Small architectural firms may use Independent Estimating Firms or there can be in-house budget estimating in larger architectural firms. General Contractors may also have estimating and budget professionals.

Budget Reliability – overcoming all Unknowns.

Independent Estimators work with architects to help architects control costs as their project evolves. General Contractors like it if they are brought in early on design-bid-build projects. One of the estimators said he did work for banks, publishes manuals and performed quantity take offs for 3D care. They all agreed they wanted to get involved as early as possible. If there is something unique in the design then the owner will want to know what it will cost. It depends on what the unique design is and the quality of the project. It depends on whether the client wants a high-end condominium or a retirement home for middle-income clients. Another issue is if there are any special site conditions or requirements, which should be identified.

There has been inflation in the last three years at 5 to 6% versus 9.9% average across the country. Inflation had really been level in 2000 and 2001. Timing is everything. When there is a lot of empty space – when starting a development there is no problem with storing supplies on site. When it is infill on a site with existing structures then storing of supplies can be a problem and needs to be included in the estimate. You need to be sure you know what you have before you start. For example, the bidding on schools is different now than it used to be. Now many schools have several small buildings on a campus while previously there would be one multistory building. Estimators often start by determining the cost per square foot.

What is important to the owner? Which will make a difference? Is the owner interested in life cycle costing or only initial cost? Outline specifications help estimators as well as an understanding of codes and how they affect design. For example, the number of required fire rated doors. LEED™ certification is becoming more important but often adds to initial cost. A realistic cost of a building is needed so there will not be any surprises later on during construction. That is, the documents need to be clear about what is included in a bid. It may create a problem if there is an under estimate of cost of something. For example in a bid for private work the contractor may not have realized street improvements needed to be included in the estimate.

Inflation is a problem. Market factors and material availability are unpredictable. Where are the materials coming from? Relationship between USA dollars and Euro dollars may affect costs. As US dollars drop the oil price changes which affects the estimate. Subcontractors need to understand the marketplace.

The third general topic was “Contingencies”

What is it and how is it used? The Owner’s contingency include change orders. The owner wants to get everything nailed down. The job or project may have unknown contingencies. Something comes up which was not anticipated. This becomes a problem to solve. Usually allow 4% to 7% for the unexpected.

The contractors’ contingency is adjusted if the contractor is brought in early on the job. Then they are better able to handle the items that had not previously been expected, and the project can be kept moving. Often the first drawings are made on a cocktail napkin and 15% contingency is appropriate. If it is based on schematic design, it can be 10%. Later it gets down to 4% contingency.

The more details there are the more assumptions are made so it is a better estimate. Usually you want to make sure budget is correct.

Questions and Answers: – What about Value Engineering?

Whose responsibility is it? Value analysis and cost reduction: Scope reduction may get the project back on budget. Do not wait until it is too late to correct scope without a lot of effort. On public bids, it may help if the contract is awarded early. The Estimator gives a second point of view and helps the team with budgeting. Need to make sure the team can predict what budget is doing.

What is the cause of bid day surprises? Bidders cannot always predict what is going to happen after the bids are opened. There may be changes that may cost more. Liquidated damages are a problem. Many times, there has been no review of documents until the day of the bid; including review of the proposed agreement. Then the bidder must get their legal staff involved to be sure they are not getting taken advantage of.

The final question was whether owners should hold to the announced budget. Once a budget is established, it needs to be maintained.

JUNE AWARD DINNER

On June 14th CSI continues the tradition of a project tour, dinner and recognition of CSI members. This year the tour and dinner will be at the Wapato Correctional Facility in North Portland. (“Wapato” is the Native American word for potato). Representatives from KMD, Glumac, Walker Macy, Hoffman Construction and the Multnomah County Sheriff’s Office will guide us on a tour of the jail – an opportunity most of us wouldn’t have without the orange jumpsuits! A catered dinner will follow the tour.

Many CSI members tirelessly contribute to the success of the chapter. Our June meeting provides a venue to recognize them and express our gratitude. This is Cherie McNabb’s last meeting as CSI president. Dennet Latham is the president-elect. See you there!

THE CONTACTS

PORTLAND OFFICERS & DIRECTORS

President

Cherie McNabb, CSI, CDT.....360-281-1918
Forbo Flooring

President Elect

Dennet Latham, CSI, CCS, AIA503-723-3998
CH2M Hill - IDC

Immediate Past President

Jim Wilson, CSI, CCS, AIA.....503-222-1917
SRG Partnership Inc.

Secretary

Doug Allen, CSI.....360-263-0049
Door Security Solutions Pacific NW

Treasurer

Dennet Latham, CSI, CCS, AIA.....503-423-3998
CH2M Hill - IDC

Executive Director

Jane Phifer, CSI.....503-805-2500 or 503- 399-7312
CSI Office - P.O. Box 5116, Salem, OR 97304

Director, Professional 2004-2006

David Roggenkamp, CSI, PE.....360-573-4545
Roggenkamp Erickson & Associates

Director, Professional 2004-2006

Russ Pitkin, CSI, AIA.....503-274-5432
LSW Architects, PC

Director, Professional 2003-2005

Ray Totten, CSI, CCS, AIA503-635-4425
Architects Barrentine Bates Lee

Director, Industry 2004-2006

Bud Henson, CSI,360-600-0804
Custom Window Company

Directory, Industry 2004-2006

Kaye Kloster, CSI503-227-3424
Ford Graphics

Director, Industry 2003-2005

Denise Carpenter, CSI..... 503-720-3005
T & A Supply

COMMITTEE LEADERS

Awards

Denise Carpenter, CSI..... 503-720-3005

By-Laws

Ken Searl, FCSI, CCS.....503-362-3472

Certification

Ray Totten, CSI, CCS, AIA503-635-4425

Editor

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

Education

Dave Roggenkamp, CSI.....360-573-4545

Continuing Education

Skip Brown, CSI, CCS.....503-827-0505

Golf Tournament - Co-Chairs

John Armstrong, CSI.....503-579-2477
Erica Bitterman, CSI..... 503-274-2030

Library

Perky Kilbourn, CSI.....503-244-1778

Membership - Co-Chairs

Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400
Pat Murphy, CSI, CDT.....503-285-4557

Operations Guide

Ken Searl, FCSI, CCS.....503-362-3472

Orientation

Michael Muhle, CSI, CDT.....503-284-6799

Products & Services Fair - Co-Chairs

Cornelia Gibson, CSI, CDT.....503-624-7444
Ellen Onstad, CSI, CDT.....503-225-0361

Programs - Co-Chairs

Jody Moore, CSI, CDT.....503-284-6799
Kaye Kloster, CSI503-227-3424

Publicity

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

Specifiers Share Group & Technical

Fred Herbold, CSI, CCS.....503-445-7389
Isaac Tevet, CSI, AIA.....503-222-1661

Student Affiliate

Rudy Barton.....503-725-3339

Webmaster

Jane Phifer, CSI503-805-2500

Portland Website
www.portlandcsi.org

INSTITUTE DIRECTORS

2004-2007

Tom Dienes, CSI, CCCA
Ph: 541-485-1700 Fax: 541-683-7722
Email: tsdienes@ix.netcom.com
Wildish Standard Paving
PO Box 7428
Eugene, OR 97401

2003-2006

Rick Heiserman, CSI, CCCA, AIA
Ph: 503-245-7100 Fax: 503-245-7710
Email: rickh@amaa.com
Ankrom Moisan Associated Architects
6720 SW Macadam Avenue, Suite 100
Portland, OR 97219

Region Website
www.csinwr.org

REGION COMMITTEES

Academic Liaison

Jeffrey Callahan, CSI, CCCA.....907-786-6425

Awards

John Lape, FSCI, CCS, AIA.....509-624-5600

Certification

Brian Keil, CSI, CCPR206-763-0300

Education

Perry White, CSI, CDT.....360-570-0504

Electronic Communications

Rand New, CSI, CDT.....541-688-5594

Membership

Lee Kilbourn, FCSI, CCS, FAIA.....503-417-4400

Planning

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

Publications

Bob Kenworthy, FCSI, CCS, CCCA...253-931-4826

Technical

Marc Chavez, RA, CSI, CCS.....206-622-9450

Treasurer & Secretary

Larry Barger, CSI, CCS360-943-4650

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, 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

May 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				

5/3 CSI Board Meeting
 5/10 CSI Membership Meeting, Billy Reeds
 5/10 **CSI Chapter Meeting,**
Portland Products & Services Fair
 5/12 CSI Specifiers Share Group Meeting
 5/26 CSI Specifiers Share Group Meeting

**Mark your Calendars!!!
 Region Conference**

**Aug 25—27, 2005
 Spokane WA - Doubletree**

June 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		

6/7 CSI Board Meeting
 6/9 CSI Specifiers Share Group Meeting
 6/14 CSI Membership Meeting, Billy Reeds
 6/14 **CSI Chapter Meeting, Wapito Tour & Awards**
 6/23 CSI Specifiers Share Group Meeting



Portland Chapter CSI
 PO Box 5116
 Salem, OR 97304