



Knowledge for Creating
and Sustaining
the Built Environment

The Predicator

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Portland, Oregon Chapter — The Construction Specifications Institute

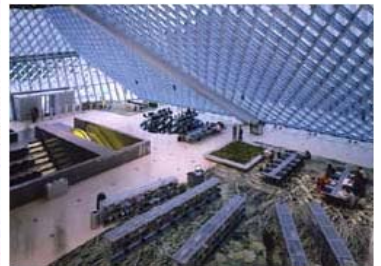
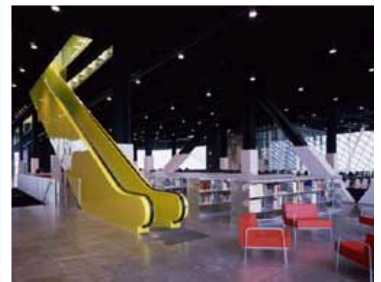
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CSI Celebrates Architecture Week Seattle Central Library

... 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

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Cook Inlet, Anchorage, AK (Third Tuesday)

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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



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