



Knowledge for Creating
and Sustaining
the Built Environment

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The Predicator

Portland Chapter — The Construction Specifications Institute

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

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



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

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

Special thanks to our event sponsor: Hanset Stainless

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

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

See enclosed event registration

PRESIDENT'S MESSAGE

By *Dennet Latham, CSI, CDT*



“Activities, Goals, and a Measure of Fun”

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

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

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

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

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

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

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

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

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

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

WHAT DO YOU SAY (continued from pg 3)

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

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

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

By: Fred Herbold, CSI, CCS



Perimeter Steel at Risk -

Can One Steel Primer Do It All?

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

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

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

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

Mechanism of Steel Corrosion

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

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

Environmental Factors

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

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

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

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

Perimeter Steel at Risk

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

Perimeter steel is at risk because:

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

Protecting Steel

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

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

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

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

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

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

Specifications in Division 05

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

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

PERKY'S NOTES

By: Perky Kilbourn, CSI



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

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

What did a Consultant Microbiologist do at CCML?

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

Second – Identify microorganisms from various Environmental Specimens.

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

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

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

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

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

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

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

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

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

“CSI to the MAX!”

2006 NW REGION CONFERENCE

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



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CSI Certification Study Group Registration Begins Now

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

(CDT) Construction Documents Technologist

(CCS) Certified Construction Specifier

(CCCA) Certified Construction Contract Administrator

(CCPR) Certified Construction Product Representative

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

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

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

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

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

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

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

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

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Commit to your professional future. Register for Certification today!

TIME TO REGISTER & STUDY FOR CSI NATIONAL EXAMS

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

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

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

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

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

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

NAME: _____

COMPANY: _____

PAYMENT: CHECK VISA MASTERCARD

AMOUNT: _____

CARDHOLDER NAME: _____

CARD NUMBER: _____ EXP: _____

AUTHORIZED SIGNER: _____

EMAIL FOR CONFIRMATION: _____

Class - \$100.00

Books:

MasterFormat 2004 \$ 75.00

PRM \$190.00

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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

January 2006

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

- 1/3 CSI Board Meeting, *Noon, AIA Office*
- 1/9 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*
- 1/10 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*
- 1/10 **CSI Chapter Meeting**, *Economic Forecasting, Princeton Ballroom*
- 1/12 CSI Specifiers Share Group Meeting, *Noon ZGF*
- 1/26 CSI Specifiers Share Group Meeting, *Noon ZGF*

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

February 2006

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

- 2/6 CSI Education Committee Mtg, *Noon, Blue Moon Tavern*
- 2/7 CSI Board Meeting, *Noon, AIA Office*
- 2/9 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 2/14 **CSI Chapter Meeting**, *LEED Update*
- 2/14 CSI Membership Committee Meeting, *Noon, Russell Street BBQ*
- 2/23 CSI Specifiers Share Group Meeting, *Noon, ZGF*



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