



Knowledge for Creating and Sustaining the Built Environment

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Portland Chapter - The Construction Specifications Institute

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Architectural Acoustics

March 13, 2007

(((((((( Reverberation
>>><<< Reflections
))))))oo... Absorption
[>>>>] Isolation

Terms sound familiar? Music to your ears? All your projects employ good acoustical solutions? Clients all pleased with their project's acoustics?

So why is noise still reported as the number one impediment to workplace productivity?

How do your projects sound? Learn more about these key acoustics terms from Tobin Cooley, P.E., president of Listen Acoustics, a leading Northwest acoustical consulting firm. You will increase your audio intuition through listening examples, and learn about new tools and techniques used in creating outstanding acoustics. Our presenter, Tobin Cooley, P.E. as been a leader in acoustics and audio systems design for clients such as Disney, Universal Studios, Sony, Nike, and Intel. He has extensive design and consulting experience in performing arts centers, corporate headquarters, churches, condos, sports stadiums, and media studios.

Tune in at our March meeting to see the latest in acoustical computer modeling techniques. Join us for a refresher on sound basics, while calibrating your ears with interactive listening examples. Play a sound game, and discover the Designers Toolbox – specific elements which can be altered to achieve intended results.

Whether you influence the design or operation of buildings, or just work in noisy surroundings, this program is for you.

THE PRINCETON BUILDING BALLROOM
614 SW 11TH AVENUE
SOCIAL AT 5:30 PM
DINNER AND PROGRAM 6:30 PM

COST: \$30.00 PER PERSON WITH PRE-PAID RESERVATIONS BY March 8, 2007,
SPONSOR A TABLE FOR 8 FOR JUST \$230.00
Late reservations – and walk-ins (as available): \$40.00 per person

TO REGISTER GO TO WWW.PORTLANDCSI.ORG

QUESTIONS? CONTACT JANE PHIFER 503-805-2500 or jane@portlandcsi.org

Table of Contents:

March Meeting 1
President's Message 2
What Do You Say? 3
Perky's Notes 4
Article Continued 5
Contacts 6
Calendar 7

# PRESIDENT'S MESSAGE

By Doug Allen, CSI, CDT



## Field Trip?

For all of us with a fascination for architecture and are in turmoil trying to plan the next vacation adventure, or if by chance you are already planning a trip some time in the next three years in which you will find yourself near one of the following destinations during these windows of opportunity, I may be able to offer a solution for your dilemma.

Oslo, Norway ~ through March 18, 2007  
Brussels, Belgium  
April 19, 2007 – September 16, 2007  
Bloomfield Hills, Michigan  
November 17, 2007 – March 30, 2008  
Washington, D.C.  
May 3, 2008 – August 23, 2008  
Minneapolis, Minnesota  
September 14, 2008 – January 4, 2009  
St. Louis, Missouri  
January 31, 2009 – April 26, 2009  
New Haven, Connecticut ~ Spring 2010

Sounds exciting, doesn't it? A little hint of what could be in store for you in these cities during your travels: you will have the opportunity to engage your thoughts and realize inspiration from renderings, models, furniture, and many designs from the past that are timeless and extreme monumental examples of one of the most prolific and controversial masters of 20<sup>th</sup> century architecture. My employer, ASSA ABLOY, is the global sponsor of *Eero Saarinen: Shaping the Future*, a traveling retrospective of the life and work of one of the 20<sup>th</sup> century's most influential architects.

*"Saarinen was the most distinguished graduate of the architecture school of all time, and was the most talented designer in his own class..."*

-Robert A.M. Stern,  
Dean of the Yale School of Architecture

Saarinen, born in Finland in 1910, immigrated to the United States of America with his family at age thirteen. Growing up in the community of the Cranbrook Academy of Art in Michigan where his father taught, Eero was exposed to a great deal of art and sculpture which, as you would expect, would be echoed in his later efforts and remarkable designs. Eero later went on to study Architecture at Yale University, finishing his studies in 1934.

After touring Europe, North Africa, and Finland, Eero returned to work for his father and teach at Cranbrook. He became a naturalized citizen of the United States in 1940. Eero established his own architectural firm, Eero Saarinen and Associates, in 1950. It is easy to see in Saarinen's work that he literally demonstrates his belief in the purpose of architecture.

*"Architecture is not just here to give space and shelter for man, but architecture also has the purpose of marking and enhancing man's time on earth."*

-Eero Saarinen

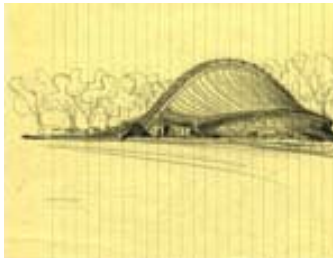
Eero's short career embodied an immense amount of work. You may recognize the major impact his work had on architecture and society from the following list of 20th-century icons: the General Motors Technical Center, the United States Jefferson National Expansion Memorial, better known as the Gateway Arch, New York's Trans World Airlines Terminal, and Dulles International Airport Terminal outside Washington, D.C.

For more information visit the official website:

<http://www.eerosaarinen.net>



United States Jefferson National Expansion Memorial, St. Louis, Missouri, under construction, 1965 From the Collections of Arteaga Photos Ltd.



Sketch of David S. Ingalls Hockey Rink, Yale University, New Haven, Connecticut, circa 1953. Courtesy Eero Saarinen Collection. Manuscripts and Archives, Yale University.

Of course, you also won't want to miss the 51<sup>st</sup> Annual CSI Show and Convention in Baltimore, Maryland ~ June 20, 2007 – June 22, 2007, which I am sure everyone is planning on attending.

Followed by the CSI Northwest Region Conference "Water: the Good, the Bad, and the Ugly" in Salem, Oregon ~ August 23, 2007 – August 26, 2007.

## Deadlines!

- CSI Institute ballots are due March 14, 2007
- CSI Show and Convention early discount registration ends May 1, 2007
- June 19, 2007 exams in Baltimore; early registration ends March 21, 2007, registration closes April 20, 2007.
- Portland Products and Services Fair "Peaceful Coexistence" May 8, 2007. Booths are now available, register soon to reserve your favorite spot.

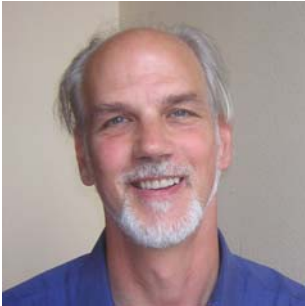
# WHAT DO YOU SAY? .. News and views from the Specifiers Share Group

By: Fred Herbold, CSI, CCS

## CSI SectionFormat™ & PageFormat™

Review of Final Draft – SectionFormat™

Call for Comments – Pre-Draft of PageFormat™



The current cycle of revisions to CSI's references and standards is probably the most significant since they were each introduced. Work began in 2001 on MasterFormat™ 2004 Edition (MF-04), which has now replaced the 1995 Edition in practice. Greatly expanded, MF-04 even looks different. In 2005 the renamed

*The Project Resource Manual – CSI Manual of Practice* was published. The "PRM" has expanded the scope of our consideration to facility life cycle and facility management issues.

The Institute established the SectionFormat™/PageFormat™ Update Task Team, or SPUTT, to revise both of these essential specification writing standards. SPUTT released the third draft of SectionFormat™ late last November. The comment period ended in January and publication is scheduled for June. We will review some of the significant changes. But, first, and more timely, the PageFormat™ (PF) initial comment started in December and closes **March 15**.

### PageFormat™ - Comments

Specification writers and interested folks can view/download SPUTT's letter and the proposed PF graphic at [www.csinet.org/sputt](http://www.csinet.org/sputt) or view the pages in this newsletter. (pages 8 & 9).

We reviewed the PF Graphic at Specifiers' Share Group. It raised a few comments:

1. Should minimum margins dimension be decreased to conserve paper? Most reproduction machines can handle it.
2. Recommendation that "most important" information in header and footer is located at unbound edge implies opposite header-footer format on odd and even pages. This should not be a requirement until all generally-used software automates this function. We believe it is not possible with current MS Word, for example.

3. Most of our spec writers prefer the Article number at the margin, and aligning Article text, Paragraph text (level 3), and subparagraph number (level 4). This looks good, looks very organized, reads well, and possibly uses less paper.

Please take a look and forward your comments directly to me at [fredh@serapdx.com](mailto:fredh@serapdx.com) or follow the instructions in the SPUTT letter. Also, as drafts are issued, we will review them at Specifiers' Share Group.

### SectionFormat™ - Review

A copy of SectionFormat Draft 3 can be viewed/downloaded at the same site as above: [www.csinet.org/sputt](http://www.csinet.org/sputt). Click on (you guessed it) "SectionFormat Draft 3."

Although the comment period has past, you should still express your opinion, if you find something wrong or objectionable. Instructions are in the cover letter of November 27, which is included in the link noted above.

The good news is that many radical changes from the first draft have been abandoned. The rest of the good news is that information is more clearly separated into the three Parts: General, which mirrors Division 01, Products, and Execution.

Assuming SF-2007 will be adopted when it is released in June, we specification writers and readers can benefit by preparing for a quick transition. Unlike MF-2004 which required a major reorganization of the Specifications, SF update should be nearly seamless. It could be implemented all at once by modifying every Section. Or it could be implemented in stages by gradually updating Sections as practical over a few months. (*opinion of the writer*)

Here's a summary of changes to look for:

- We, CSI, USA, say: "**Furnished**" and "**Field**". They, CSC, Canada, say "Supplied" and "Site."
- **Measurement and Payment** is combined in Part 1 under Price and Payment Procedures. It's a definite place for public works contracts to specify this method of compensation for specific portions of work.
- New Article **Administrative Requirements** is the new location for Coordination, Pre-installation Meetings, Sequencing, and Scheduling.

(Continued on page 5)

## PERKY'S NOTES

By: *Perky Kilbourn, PhD, CSI*



Last Tuesday, February 13, 2007 was the regular meeting day for Portland Chapter CSI. Lee and I had figured we might be able to attend after flying from Florida where we had just disembarked after a ten day cruise. Unfortunately, the weather in Cincinnati, Ohio was such that our flight was canceled. We ended up flying to Atlanta, Georgia and Salt Lake City, Utah before we reached

Portland, Oregon. It was also about 5 hours later then we had originally planned.

These "Notes" are going to be about where we visited on our cruise and the things we saw which might be of interest to members of the Construction Team. After leaving Fort Lauderdale our first stop was Kralendijk, Bonaire. Lee and I took an Island Bus Tour which included riding to the part of the Island where their current Solar Salt Works are located. We were shown the huts used by African slaves who worked in the Solar Salt Works. These short stone huts were built in the 18th century with no windows or ventilation scheme and one had to crouch inside them. Fortunately, these huts are no longer in use because they sure did not look comfortable to me. Our bus then took us to the other end of the island and the Washington Slagraai National Park where the flamingos live. It was beautiful and we did see some flamingos. On our tour we passed through Rincon Village, which was established by the Spanish settlers in the fifteenth century. This village is on a defensible hilltop rather than the shore so passing ships would not easily spot them. Many of the old buildings are well preserved and painted beautiful pastel colors.

Our next port was Willemstad, Curacao and Perky did the Dolphin Encounter while Lee stayed dry and took pictures. Those of us encountering the dolphins stepped onto a shallow platform and the dolphin came over to visit. I was kissed by the dolphin as well as it allowing me to pet it. I had previously gone on a dolphin encounter but this time I was able to prove it by purchasing two pictures of me with the dolphin. One interesting bit of history about the island was that the first governor of Curacao developed a terrible allergy to the color white so all the houses were painted in colors. Quoting our handout "The dolls house look of the architecture makes a cheerful contrast to the stark cacti and the dramatic shrubbery dotting the countryside." Another interesting point is that Willemstad has a floating (pontoon) bridge (Queen Emma Bridge) which swings open many times each day to allow ships to pass into and out of the harbor. Lee and I watched this happen both with a small boat where the bridge moved just enough to let the boat by and with a much larger boat (ship) which required that the bridge be opened a significant amount. There is also a ferry which takes people back and forth but we did not ride it.

After a day at sea we arrived in Roseau, Dominica which had been largely destroyed by hurricane David in 1979. We toured the island in a van and stopped at a restaurant where we were entertained by folkloric music and dancers. We saw many of the plants which are also native to Hawaii - pointsettias and anthuriums seemed to be growing wild. Of interest to architects might be that their market for tourists was in a warehouse. The

island is composed of rugged mountains which drop precipitously into lush valleys and the island has few amenable beaches. It is an independent country and a member of the British Commonwealth. On November 3, 1493, the island was first sighted by Christopher Columbus who named it Dominca ("Sunday") to mark the day of the discovery.

The next day was spent at St. Thomas, U.S. Virgin Islands. We chose a trip to the Coral World Ocean Park. The first section at the park was the Lorikeet Garden. There were a double set of doors so the birds would stay inside and be able to fly around. The people could go in and feed the birds and the birds can not escape. The next display was an open Mangrove Lagoon followed by two circular buildings with an enclosed Marine Gardens beyond the outside walls and a place for people to walk in the center. We then took a walk down a Tropical Nature Trail by a fresh water pool with ducks followed by a tortoise pen and a cactus garden. We next visited the ocean through an Undersea Observatory and Deep Reef Tank. Lee found this structure of interest because it consisted of the central column with two spiral stair cases - one for going up and the second for going down. The walls were windows (at least double pane) through which you could see the swimming fish. Lee commented on the thickness of the walls and windows and the amount of pressure which was being exerted on the structure because of the depth of the building - we had descended about three stories. Our final visit in the Coral World was to the Caribbean Reef Encounter - a circular building with a reef on the outside wall and the central core where we stood.

Our final Port of call was Half Moon Cay, Bahamas where we rode a tender ashore and relaxed on a beautiful white sandy beach before having a barbecued lunch and then an Eco Lagoon Cruise in a glass bottom boat. Our guide told us what we were seeing in the water below us and since the guide had given us cards with colored pictures of what we might see, it was easy to identify the marine life. We passed a recreation of an Arawak Indian Village which appeared to consist of grass huts. The Arawak Indians were the first inhabitants of the Caribbean Islands. The Arawak Indians were followed by the Carib Indians from South America and then the Europeans. If you are interested in the history of the islands please let me know and I can loan you some of the literature we were given to read about each island. All the islands we visited had changed ownership several times during their histories.

I need to conclude by discussing two rather unique events which occurred on board the M.S. Masdam. First was an Indonesian Crew Show. Many of the Crew were Indonesian and they had gotten together and prepared ethnic songs and dances for one of the evening shows. The second unique event was On Deck for the Cure. It was supposed to be a 5 K walk which was 12 laps around the ship. I took my oxygen tank and started out while hanging on to Lee. I think everyone else passed us at least once by the time we had completed 6 laps and I needed to fill the oxygen tank again. We then did another lap and a half before calling it quits. About half of the passengers participated so it was quite an event and raised quite a bit of money for Komen Cancer Research. Lee and I both agree that cruising is a great way to take a vacation and have already signed up for one this summer.

## WHAT DO YOU SAY? (Continued from pg 3)

- Submittals has new subheadings: **Action Submittals** (Product Data, Shop Drawings, Samples) and **Informational Submittals** (Certificates, Tests, Instructions, etc.) and **Closeout Submittals** (O&M Data, Warranty Document, etc.) and **Maintenance Materials Submittals**. These are typically treated differently by the design professional.
- **Maintenance Materials Submittals** includes Spare Parts, Extra Stock Materials, and Tools and Software.
- **Maintenance** moves to the end of Part 3. This Article specifies maintenance service after the construction period.
- **Operation** is also an Article at the end of Part 3, and before Maintenance. Although Draft 3 does not say, specific operation requirements for commissioning might be specified here.
- **Part 2** is more clearly and simply organized: There are only four (4) primary titles for Articles: Owner-Furnished Products, System/Assemblies/Units/Products/Materials/ Etc., Accessory Products, and Source Quality Control.
- **Owner-Furnished Products** includes New Products and Existing Products (salvaged for example).
- **System/Assembly/Etc.** includes Manufacturers, Description, Performance, Operation, Materials, Fabrication, and Finishes.
- **Manufacturers** are specified under each system or component, rather than for the entire Section. If a Section specifies only one system, then Manufacturers moves back up to level 2, Article status.
- **Performance** is now located in Part 2 and associated under the System or Product it describes. This makes it easier to differentiate performance requirements between system and components, for example, the door opening in a curtain wall may not require the same resistance to air infiltration as the curtain wall itself.
- **Systems Integration** is a subheading in Part 3 under Installation. We should expect to see this used for high performance buildings.
- **Schedules, Tables and Illustrations:** Keep and eye on PageFormat™ update to see how these items are coordinated with Section text. It appears that they should be properly integrated into the Section, or attached at the end of the Section if not integrated. The former Part 3 Article, “Schedule”, no longer exists. Example: Door Hardware Groups can either be a separate schedule attached to Section 08 71 00 or incorporated in Part 2 under Article “Door Hardware Groups”. (*opinion of the writer*)

**Specifiers’ Share Group** will continue to be the primary forum for Portland Chapter’s discussion and comment on the updates. We will be keeping up with the PageFormat™ update. We will also be discussing implementation of the SectionFormat™ as June draws near. You are certainly welcome and encouraged to join in, either personally or electronically.



“2007 Certification committee meeting, making final plans and testing equipment; (from left clockwise) Rick Heiserman, Dana Richardson, Dennet Latham, Jody Moore, Christine Steel, and Fred Herbold.”

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

## NORTHWEST REGION CHAPTER MEETINGS

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

**Puget Sound, Seattle, WA** (Second Tuesday)  
 Dave Walter, CSI.....425-774-7704

**Mt. Rainier, Tacoma, WA** (First Thursday)  
 Jeff Herrmann, CSI,CDT.....253-756-8191

**Spokane, WA** (Second Thursday)  
 Jim Devaney, CSI..... 509- 953-1719

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

**Capital, Salem, OR** (Third Thursday)  
 Chris Veit, CSI, CCS.....503-390-0291

**Willamette Valley, Eugene, OR** (Last Thursday)  
 Doug Mullican, CSI, CCCA.....541-687-9451

**Idaho, Boise, ID** (First Tuesday)  
 Steven Turney, CSI, CDT.....208-345-8872

### Big Sky, MT

Jan O'Brien, CSI.....406-245-6363

# March 2007

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

- 3/6 CSI Board Meeting, *Noon, AIA Office*
- 3/08 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 3/13 CSI Chapter Meeting - Architectural Acoustics, Princeton Ballroom**
- 3/19 Membership meeting, *Macadam bar & grill, Noon*
- 3/20 Program Meeting, *7:30 am, Nancy's Kitchen—16th & Glisan*
- 3/22 CSI Specifiers Share Group Meeting, *Noon, ZGF*

# April 2007

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

- 4/3 CSI Board Meeting, *Noon, AIA Office*
- 4/10 CSI Chapter Meeting - The Nines, Princeton Ballroom**
- 4/12 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 4/23 CSI Membership meeting, *Noon*
- 4/24 Program Meeting, *7:30 am, Nancy's Kitchen—16th & Glisan*
- 4/26 CSI Specifiers Share Group Meeting, *Noon, ZGF*

# May 2007

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

- 5/1 CSI Board Meeting, *Noon, AIA Office*
- 5/8 CSI Portland Products & Services Fair**
- 5/10 CSI Specifiers Share Group Meeting, *Noon, ZGF*
- 5/14 CSI Membership meeting, *Noon*
- 5/22 Program Meeting, *7:30 am, Nancy's Kitchen—16th & Glisan*
- 5/24 CSI Specifiers Share Group Meeting, *Noon, ZGF*