



SPECTRUM

Newsletter of the Puget Sound Chapter CSI

Upcoming Chapter Events

May Dinner Meeting: Construction 2.0 - Transform or Die



Presented by: **Doug Moore, P.E.**, *President, McKinstry*

Design automation, virtual reality, artificial intelligence, robotics, model-enabled digital information-gathering. It's all headed our way, very fast. The mechanical and electrical contractors have been at the forefront of technology driven change for more than two decades. No company is more nationally recognized in the creative application of technology than Seattle-based McKinstry Inc. If you want to survive the disruptive forces headed your way, then you will want to attend the CSI Puget

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EVENTS CALENDAR 2018-2019

Chapter Program Topics
May 4, 2018
[2018 CSI NW+W Region Conference](#)
May 10, 2018
[May Chapter Meeting](#)
May 24, 2018
[Get Social with CSI Networking Event - Learn About CSI](#)

BOARD OF DIRECTORS
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[Bob Mandy](#)

Sound Chapter
dinner on Thursday
May 10.

Register Now!

President's Message

Bob Mandy, CSI, AIA

Is the AEC industry at the forefront of innovation? How much has the industry changed lately? Since recovering from the Great Recession (in a very robust manner, especially locally), have advances occurred?

When catching up with colleagues in our industry, they will more likely than not tell you how busy they are- maybe that they're the busiest they have ever been! With all of the change and innovation, how do you stay current when you're so busy? This topic struck me recently while

discussing nineteenth century innovation in a beginning architecture history class with my students at LWTech. Specifically, discussion of the E. V. Haughwout Building in Manhattan. Built in 1857 and designed by Irish-born architect John P. Gaynor, the Renaissance Revival Style building has two façades on a corner lot, and utilized a prefabrication cast-iron system. The systemized façade sped up construction greatly on its busy New York City site. This sounds familiar, only this was 160 years ago. The tenants of this building also benefited from an innovation in vertical circulation: the world's first steam-powered hydraulic elevator, designed by Elisha Graves Otis.



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E.V. Haughwout Building Broadway New York

Photo by: Kenneth C. Zirkel

The Haughwout Building's materials and construction methods, along with Otis's elevator invention, helped to set the stage for many industry advances to come. It was during the Second Industrial Revolution (or Technological Revolution), and some thirty years after the Haughwout Building was completed that steel manufacturing was improved for skyscrapers. The first high-rise was the Rand McNally Building (1889), by Burnham and Root, a ten story building in Chicago. Another busy time, this was a period in history when many advances were rolling out simultaneously, be it electrification, machine tools, automobiles, engines, telecommunications- to name just a few- as new technologies allowed designs to rise further into the sky.

Jumping ahead nearly a century to the 1980's, we saw computers being used in our industry, first with word processing (super exciting for specification writers!), and then computer aided drafting (CAD). Typing out specifications soon became a thing of the past. By 1990, personal computers were common and most commercial architectural firms were utilizing some form of CAD. By 1995, a variety of 3D modeling programs were on the scene, including CATIA, an aerospace and manufacturing software invented by a French aircraft manufacturer. Architect Frank Gehry was using CATIA to design MoPOP, our local Museum of Pop Culture (formerly the EMP). Also in the late 1990's, Building Information Modeling (BIM) began showing up in the AEC industry, approximately two decades after the aerospace industry began utilizing it. Although currently some sectors within the AEC industry use BIM more than

monthly as a benefit for members of the Puget Sound Chapter CSI.

Articles must be submitted by the 15th of the month for the next month's edition. Email submissions to office@pscsci.org.

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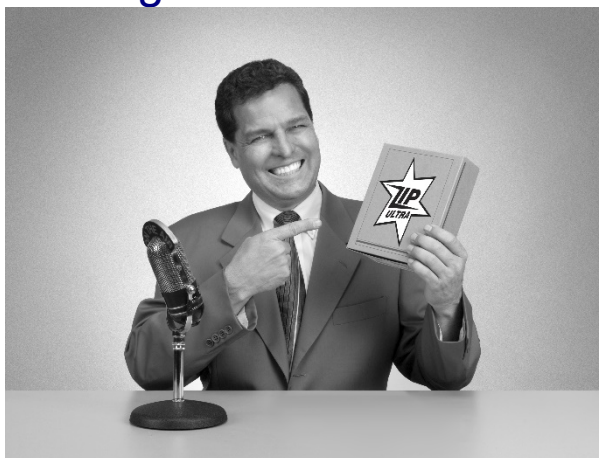


others, its potential has not yet been fully realized throughout our industry. Today, Virtual reality (VR) and augmented reality (AR) are now becoming more common in the AEC industry. Are you ready for how these tools will revolutionize our industry? Will you become the next inventor?

As an educator, I am constantly evaluating training needs and new technologies for our up-and-coming architectural talent. I've come to realize all sectors within our industry are faced with similar challenges of keeping workforce current with required skills for the demands of the twenty first century. When and how will the workforce find time to learn new skills in these rapidly advancing times? Hone skills? Master new technologies? When employers don't invest in professional development for their employees, their companies can quickly lose their competitive advantage. At the same time, our industry is beginning to experience the loss of many baby boomers to retirement, and with them their extensive knowledge base. How successful are we in attracting younger generations to our industry? How successful are we in providing the tools and training required for them to succeed, flourish, and innovate?

The next few years could tell a different story for the AEC industry. I predict the AEC industry will see more change in the next 10 years than most of us have seen in our lifetimes. CSI is here at the forefront. CSI members are the experts in the building construction field. Our members represent specifiers, architects, designers, engineers, contractors, facility managers, product representatives, manufacturers, owners and more. Our members provide invaluable advice to our project teams based on firsthand successes that help drive growth in the AEC industry. Our chapter meetings are a platform for learning. We continue to provide up to date product information with Quick Pitches. Our guest speakers provide insight to current practices in our field. They inspire and energize our members. Attend our next meeting and capitalize on an opportunity to hear Doug Moore, P.E., President, of McKinstry Inc., to discuss how innovation is a driving force at McKinstry, Inc.

Chapter Meeting Quick Pitches



We currently have Quick Pitch openings for the September and November Chapter meetings, in the fall. The Chapter charges \$150 for 10 minutes of time to present to those in attendance. A table to display your products during the social hour will be provided. Contact [Dick Owen](#) to reserve your date.

Sponsorship Opportunities

Don't miss the opportunity to get an edge up over the competition by sponsoring PSC CSI! Sponsorship at any level provides many perks, including exposure for your company and products. By signing up to sponsor the association early in 2018, you will extend your reach to key contacts within in the construction specifications industry. Check out the great list of sponsorship opportunities the chapter has to offer below:

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About CSI

CSI is a national association of specifiers, architects, engineers, contractors, facility managers, product representatives, manufacturers, owners and others who are experts in

building construction and the materials used therein. They are dedicated to improving the communication of construction information through:

- A diversified membership base of allied professionals involved in the creation and management of the built environment. Join us.
- Continuous development and transformation of standards and formats.
- Education and certification of professionals to improve project delivery processes.
- Creation of practice tools to assist users throughout the facility life-cycle. Join a CSI Practice Group.

CSI is governed by a Board of Directors, a nationally elected body that provides long-range strategic leadership. The Board is composed of nationally elected CSI officers, including the board chair, president-elect, two vice presidents, the secretary, and the treasurer; elected representatives (directors) from each of CSI's 10 regions; and a director at large. CSI's CEO is a corporate officer.

For more information about or to join CSI, visit www.csinet.org/joincsi, or call 800-689-2900.

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