

OCTOBER 2014

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DINNER MENU

Dinner Salad

Choice 1: Stuffed Chicken Choice 2: Crusted Mahi-Mahi Choice 3: Vegetarian Pasta Dish Dessert

Prices

Members: \$18 + \$1.89 CC Fee
Non-Members or Retired:
\$48 + \$3.39 CC Fee
Table Top: \$275 + \$14.74 CC Fee

Schedule

6 pm: Social hour7 pm: Dinner8 pm: Program

Location

Washington Dulles Airport Marriott Hotel, 45020 Aviation Drive Sterling, VA 20166



Newsletter of the Northern Virginia Chapter Construction Specifications Institute

CHAPTER MEETING OCTOBER 8, 2014

Form-Based Codes

Description:

This presentation provides insight into understanding Form-Based Codes, how they were developed, their role in the built environment, the elements that make up Form-Based Codes, how these elements can be regulated, and the role of a Town Architect.

Definition: Form-Based Code (from the Form-Based Code Institute) A form-based code is a land development regulation that fosters predictable built results and a high-quality public realm by using physical form (rather than separation of uses) as the organizing principle for the code. A form-based code is a regulation, not a mere guideline, adopted into city, town, or county law. A form-based code offers a powerful alternative to conventional zoning regulation.

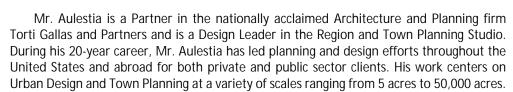
Learning Objectives:

Upon completion, the participants will be able to understand:

- Understand the History and Role of Form-Based Codes
- Understand the Elements of a Form-Based Code
- Understand the Architectural Elements that may be Regulated in a Form-Based Code
- Understand the Role of the Town Architect

Speaker:

Erik J. Aulestia, AICP



Mr. Aulestia's expertise includes Transit Oriented Development, Mixed-Use Town Centers, Traditional Neighborhood Design, Urban Revitalization, and Form-Based Codes. He lectures often on the subjects of Smart Growth, Mixed-Use, and Form-Based Codes and as the Principal-in-Charge recently received the Driehaus Award for the "Downtown Wyandanch and Straight Path Corridor Form Based Code".





Schedule of FY2015 Chapter Meetings and Presentations

September 2014

SNMAAHC Museum tour Cynthia Heimann/Henry Doyle

October 8, 2014 Form Based Codes Erik Aulestia

November 12,2014

Radio-Frequency Identification/ Logistics Patrick Thomas

December 10, 2014

Solar Reflectivity Analysis for Curtainwall Buildings Vicente Montes

January 14, 2015

Laser Leveling Earth Moving Tom McConnell/Jesse Oak

February 11, 2015

Value Engineering

Deborah Mc Pherson

March 11, 2015

Trends in Architectural Education Randy Ott, Dean Catholic Univ.

April 8, 2015

Donald Trump Post Office Hotel William Peques

May 13, 2015

Air Quality Control Mike Clancy

June 10, 2015

Trade Show, Hors d'Oeuvres, Desserts, & Awards *Mike Clancy*

July 2015

Board Transition and Summer Planning Meeting

Alternate topics include BIM, LEED Health Declaration Statements, Shipping Container Base Architecture, and Top-Down Construction Method.



PRESIDENT'S MESSAGE

Luigi Grande, NOVA CSI President

Dear CSI Members,

On September 16, 2014, and again on September 23, 2014, the CSI Washington DC Metro Chapter and the CSI Northern Virginia Chapter jointly attended a tour encompassing the construction of the Smithsonian National Museum of African American History & Culture.



The tour was very well orchestrated and organized and, I might also add, a very successful event. More than 30 people were in attendance. Following the tour, CSI Washington DC Metro Chapter provided refreshments and finger food.

Some of the individuals that I feel must be recognized for their contribution and hard work are the following:

- Henry Doyle/ Downey & Scott, LLC for interceding on our behalf, and allowing for the
 two chapters to visit the site and provide safety guidance. I have to say that I was
 impressed seeing all participants wearing safety gear, and Henry being vigilant on every
 move the members made to prevent accidents.
- Charlie Yetter/McKissack and McKissack was our tour guide. He was an amazing individual, a real professional par excellence and very knowledgeable on every detail of the project including conceptual design to minute details of construction activities. A real natural. I am almost certain that in time the Smithsonian Institute will offer him a permanent job.
- Cynthia Heimann/ Kishimoto, Gordon, Dalaya PC and Jesse Oak/ PB-Heery Americas, Inc for organizing, advertising and coordinating the event.

The Leadership Orientation Seminar (LOS) this year was held on August 15-16 at the Hilton Garden Inn in Frederick, Maryland. I am happy to report that our chapter was well represented. Members in attendance were Jesse Oak, President Elect; Robert Trafton, Director; David Lorenzini, Editor; Alan Geary, Past President, and Luigi Grande, President.

The "State of the Chapter Report" for our Chapter was distributed to the Middle Atlantic Region Chapters present at the meeting. There were various interesting discussions and presentations. However, it appeared that retention of membership was a common issue.

We urge our members to talk to friends and colleagues emphasizing the benefits of joining CSI. If you need assistance on providing information on CSI please do not hesitate to contact me or our Membership Chair, Dan Cammer. We will assist you with presentations or CSI material to emphasis the benefits of joining CSI.

We are looking forward to see you in October at the Dulles Airport Marriott Hotel. •

Luigi

CODE CORNER - ON THE MAY 2014 CODES AND STANDARDS PROGRAM

Daniel Cammer

NOVA CSI Membership Chair and Director

I wish to thank all for your support, help, advice, and input that made this "original" presentation possible. At the moment, I feel that it was a good "rehearsal" and now it's a welcome relief to know that it came off without too many hitches. I think it has set the stage for additional informative/useful events on codes and standards which are a necessity of life.



All of the objectives as outlined in the Evenbrite promotional write-up were not covered, but we hope to make this happen through newsletter articles, and perhaps a future Chapter program can be arranged if the members desire. Thanks again. •

NOVA MEMBER ANNIVERSARY DATES

October

John Van Wagoner51 years Professional Emeritus
David Metzger35 years Retired
William Dunn

RENEWAL DATE REMINDERS

October

James Bethel	10/31/2014
Alan Geary	10/31/2014
Betsy Hooper	10/31/2014

November

Cynthia Heimann	11/30/2014
Marty Jakovics	11/30/2014
Raymond Murray III	11/30/2014

CSI MEMBERSHIP A VALUABLE RESOURCE

Expand your professional career in the construction industry, as many others have done, by applying for membership in CSI and joining the members at the Northern Virginia Chapter monthly meetings.



Smithsonian National Museum of African American History & Culture

EDUCATION AND CERTIFICATION

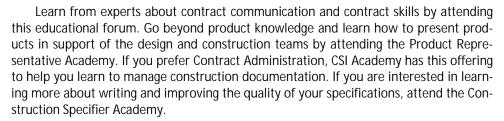
John Geniesse

NOVA CSI Education/Technical/Certification Committee Co-Chair and First Vice President

Increase your knowledge by taking advantage of the following CSI educational offerings:

CSI Academies

April 16-18, 2015, San Francisco, CA



Whatever your interest, the CSI Academies has an offering for you. Register early at www.csinet.org

CSI Webinars

Earn Continuing Education credits by attending October's webinars. These are interactive telephone and web education sessions lasting 90 minutes. Visit the CSI's website and see which of the offerings for this month peak your interest. Learn more and register at www.csinet.org. •

SEPTEMBER TOUR PHOTOS



NOVA President Luigi Grande with Tatiana Gloukhoff Petros (L) and Ninoska Bastista (R).



View through first floor looking North to Commerce Building.



View of NW corner core and escalator, with cantilevered floor extensions.



View of underside of support for Oculus at Contemplative Court.

Past Presidents of Northern Virginia CSI

Listed by Fiscal Year Dates

1992 William C. Peques

1993 William C. Pegues

1994 Tony Wintz *

1995 Henry Doyle

1996 Steve Szoke **

1997 Michael Clancy

1998 Gloria Buchanan

1999 Brian Trimble

2000 Jean Carr ***

2001 Robert Morris III

2002 William Pegues

2003 David Lorenzini

2004 Mary-Ellen Pfiester

2005 Marshall Moss

2006 Diane Pittman

2007 Alan Geary

2008 Alan Geary

2009 Jason McKay

2010 Jason McKay

2011 Paul Brosnahan

2012 Deborah MacPherson

2013 Deborah MacPherson

2014 Luigi Grande

- * Location unknown, no longer a member of CSI
- * * Relocated to Ohio
- *** Retired to Florida, no longer a member of CSI



EDITORIAL: A NEW APPROACH TO CSI CONVENTION & CONSTRUCT

No doubt, if you missed CONSTRUCT2014 in Baltimore on September 9-12 this year, you missed some major changes in how the event was organized. First of all, and most obvious, the Friday exhibit was eliminated along with the Friday Awards and Gala event in the evening. After more that four decades, these changes seemed like a sacrilege to the tradition we have always looked forward to.

Times move on, but CSI and Hanley Wood (CSI/HW) pulled off a successful convention and product exhibit just the same. A new tradition begins, more convenient to all the attendees, and less expensive as well. The previous Friday product shows were only half a day anyway, and may have been necessary in the past when the number of booths and attendees were larger. This new format works better for a downsized CSI event.

Tuesday: The Fellows Induction Ceremony occurred on Tuesday afternoon on the first day of Construct following a welcome reception for everyone on the outdoor terrace of the Baltimore Convention Center. At the end of the ceremony, the guests were led by a bagpiper to the World Trade Center building (located in the center of the snapshot on page 7). The Celebration of Fellows reception was held on the 23rd floor with dramatic views of scenic Baltimore at dusk and evening. Rate this one of the best opening days of Construct in memory. Since the exhibit hall was not open on Tuesday, CSI/HW scheduled two concurrent boxed lunch panel discussions at noon. Several hundred attendees at the full day of educational sessions had a choice of topics while enjoying a healthy lunch.

Wednesday: The Baltimore Chapter Harbor Cruise was a sell out and a delightful Wednesday night event. It was well planned and we look forward to the Middle Atlantic Region Conference to be hosed by the Baltimore Chapter in Spring 2016.

Thursday: Resurrecting the old McGraw-Hill and Dover Elevator events of two to three decade ago, CSI Night Out at adjoining beer gardens at Power Plant Live was a huge success on Thursday night.

Friday: This day was the 200th anniversary of the Star Spangled Banner, with tall ships lining the Inner Harbor docks and hosting free tours, Blue Angels practicing over the city for the weekend celebration, and President Obama arriving and leaving Fort McHenry by helicopter. It was a beautiful late summer day, as you can see in the photos on page 6.

There were many more events worthy of making Construct a must-attend experience. Pablos Holman gave a high energy and delightful presentation on developing building with a new twist--3-D printing!

Next Year: Be prepared for more changes. St. Louis will be the host city on September 30 to October 3. If you check your 2015 calendar, you will find that these dates are Wednesday to Saturday!! This scheduling harkens back to the old days when airlines charged more if you didn't stay over a Saturday night. The CSI Awards and Gala was held on a Saturday partially for this reason. We have to wait for details of CONSRUCT2015 to know what other changes are in store. You won't want to miss it.❖



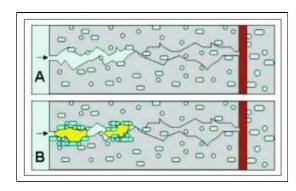
St. Louis, MO is the Gateway to CONSTRUCT 2015

INNOVATIVE MATERIALS

More on the future of materials. This is a continuation of our series on state of the art products that may trigger your curiosity.

Self-Healing Concrete

The great downfall of concrete—the world's most widely used building material—is unavoidable cracking, caused by exposure to water and chemicals. But a new development from a team in the Netherlands could extend the life of this popular material by infusing it with bacterial spores that patch up cracks when water seeps through. Plans are in place to make this self-healing concrete commercial in the next year or two. •



Mega Magnets

Rare earth materials are vital to the manufacture of wind turbines, electric and hybrid cars, and consumer electronics due to their powerful magnetic properties. Yet they are also expensive and come almost entirely from one source—China. Whereas electric motors use magnets to transform electrical energy into mechanical energy, sintered rare earth magnets produce incredibly strong magnetic fields at small sizes, allowing manufacturers to build smaller, lighter motors, according to Electron Energy Corp. The firm has teamed up with University of Delaware researchers to develop a manufacturing process that increases sintered rare earth magnets' electrical resistivity by at least 30 percent. Their goal is to make magnets with increased electrical resistivity that can reduce motor efficiency losses even when motors operate at high speeds. Shown here are blocks of nickel-plated neodymium magnet, one of the most widely used types of rare-earth magnet. (Courtesy of Images-of-Elements.com, via WikiMedia Commons)





Fungal foam

Initially conceived as a cost-effective, environmentally friendly and high-performance alternative to Styrofoam, Ecovative Design makes its Mushroom Packaging from agricultural crop waste—plant stalks, rice, and wheat husks—bonded together with mushroom roots (called myce-lium). The company is now adapting its mushroom material to produce biodegradable alternative to petroleum-based plastic foams used in automotive bumpers, doors, roofs, engine bays, trunk liners, dashboards, and seats. Other potential uses include tabletops, surf-boards, and clothing. (Courtesy of mycobond, via Flickr). •

(Our readers are encouraged to submit their experiences with these types of products for publication in future issues.)

http://nova.csinet.org/ 5

TALL SHIPS ON DISPLAY FOR TOURS AT BALTIMORE INNER HARBOR DURING CONSTRUCT2014



The Constitution (United States)





El Galeon Andalucia (Spain)



El Galeon Andalucia (Spain)



Eagle (U.S. Coast Guard)



Eagle (U.S. Coast Guard)

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Chapter Board of Directors

Luigi Grande Igrande@ch2m.com	President
Jesse Oakjoak@pbheeryamericas.com	President-Elect
Deborah MacPherson dmacpherson@cannondesign.com	Immediate Past Pres.
John Geniessejgeniesse@stanleyworks.com	1st Vice President
Tom McConnelltom@construxva.com	2nd Vice President
Mike Montgomerymbmonty@embarqmail.com	Secretary
Diane Pittmandiane.pittman@cox.com	Treasurer
Robert Traftonrtrafton@nehmer.com	Director, 2013-2014
Ken Lyons	Director, 2013-2014
Cynthia Heimanncheimann@kgdarchitecture.com	Director, 2014-2015
Dan Cammer d.cammer@rebarchitects.com	Director, 2014-2015
Mike Clancy mclancy1@verizon.net	Director, 2014-2015
Bill Rains bill.rains@sherwin.com	Director, 2014-2015

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Nominating	Deb MacPherson dmacpherson@cannondesign.com
Programs	Cynthia Heimanncheimann@kgdarchitecture.com

Middle Atlantic Region

 $\label{lem:mgcccs@spexresources.com} President \quad Margaret \ Chewningmgcccs@spexresources.com$

Institute

Director Raymond Gaines gaines 5@ntelos.net

SNAPSHOT AT CONSTRUCT2014



View of Baltimore's Inner Harbor from Federal Hill park.

Editor's Corner

Comments regarding this newsletter are welcome. Original contributed articles are also welcome. Submit them in Word DOC format to *deloren@scip.com*. Articles should be concise and to the point, accompanied by graphics, if applicable, in JPG format. •

Editorial Policy: NOVASPEC acts as a moderator without approving, disapproving, or guaranteeing the validity of accuracy of any data, claim, or opinion appearing under a byline or obtained or quoted from an acknowledged source. The opinions expressed by authors do not necessarily reflect the official views of the Northern Virginia Chapter CSI or The Construction Specifications Institute.

All material for each issue must be received by the Editor 3 weeks before the next Chapter meeting date.

The Construction Specifications Institute (CSI) is a nationwide, nonprofit, technical organization dedicated to the advancement of construction technology through communications, education, research, and service. Founded in 1948, CSI provides a forum for architects, engineers, specification writers, contractors, suppliers, and others in the industry.

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BALTIMORE INNER HARBOR PANORAMA



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