



MARCH 2014

Newsletter of the Northern Virginia Chapter Construction Specifications Institute

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DINNER MENU

Dinner Salad

Choice 1: Parmesan Chicken

Choice 2: Crusted Mahi Mahi

Dessert: Chef's Choice

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 hour**7 pm:** Dinner**8 pm:** Program**LOCATION**

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

CHAPTER MEETING MARCH 12, 2014**An Approach to Hardware Specifications****Description:**

This presentation provides insight into understanding a Hardware Specification, explaining the intent, approach and format used in creating a door hardware specification. It covers the organization of written material, the hardware schedule, and an approach to adding electrified and access control hardware. The sequence and format of a vertical hardware schedule is reviewed, as well as how life safety, fire and ADA codes influence hardware applications.

Recommended for Architects, Specifiers and other Design Professionals in the government, industrial, educational and commercial market.

Learning Objectives:

Upon completion, the participants will be able to understand:

- Learn the correct sequence in creating the specification
- Understand which codes need consideration and influence the specification
- Learn the correct sequence and format of a vertical hardware schedule
- Understand how to integrate electrified hardware and access control into the hardware specification

Speaker:

John Geniesse, Architectural Hardware Consultant
Stanley Security Solutions

John Geniesse is a Door and Hardware Institute (DHI) certified Architectural Hardware Consultant, (AHC) and Certified Door Consultant (CDC), with 30 years experience in the commercial door and hardware industry. John has worked in various capacities, including project management, sales, and specification writing. John also has been Technical Manager for the Door and Hardware Institute for 8 years, which included technical education and certification for industry members. He currently works for Stanley Security Solutions and writes hardware specifications.



Register for the meeting on the Chapter website www.csinova.org by March 7!

SCHEDULE OF FY2014 CHAPTER MEETINGS AND PRESENTATIONS

September 2013

Translating Actual to Virtual/
Transforming Virtual to Actual

October 2013

Super Educational Buildings--
Woodson HS

November 2013

Free Axex Flooring Systems

December 2013

Northern Virginia AIA Design
Awards

January 2014

3-D Printing
ABC Imaging

February 12, 2014

Custom Building Products
Terry O'Hara

March 12, 2014

An Approach to Hardware Specifi-
cations
John Geniesse

April 9, 2014

The Necessities of Life – Building
Codes and Standards
Diane Pittman & Dan Cammer

May 14, 2014

An Overview of LEED Version 4
Jesse Oak (tentative)

June 11, 2014

Hors d'Oeuvres, Dessert &
Awards
Mike Clancy

July/August 2014

Board Transition and Planning
Meeting (*agenda TBD*)



PRESIDENT'S MESSAGE

Luigi Grande

NOVA CSI President

Dear Members,

Our June program, as described elsewhere in this newsletter, is probably the most effective way to combine educational opportunities on building materials with practical, hands on product and service solutions for your educational knowledge. This event will take place on June 11, 2014 at the Marriott Washington Dulles Airport and will be dedicated to the institutional, industrial, residential, and commercial building industry. If you design, specify products, or renovate, this is an event you should not miss.



Architects, product manufacturer's representatives, general contractors, and students are always subject to many industry forces and influences generally lead by codes and regulations, environmental concerns, economic cycles, industry trends, technology advances and innovations, and current events that shape the way buildings are designed and constructed. There is no doubt that LEED and similar sustainability guidelines provide a new attitude on designing buildings with a focus, among many other facets, on energy efficiency, new analysis and coordination tools in building information modeling, new construction products that reduce waste and improve the indoor environment. All these and more come to our attention every day, and have the potential of producing better designs.

Our June event will present products and ways in which you can contribute to better building design while interacting with members of your profession. Come and learn with us. Exchange your knowledge with us, and interact with others who share the same quest for designing and constructing better buildings. Look for details coming your way in the near future.

Luigi

CHAPTER MAILING LIST UPDATE

Jesse Oak

NOVA CSI Electronic Communications Committee Chair and President-Elect

Mailing List: Now that the Chapter mailing list has been updated I would like to thank Korey Phipps and Mike Montgomery for their help. It is now important to keep this list up to date so if your information changes please forward to Jesse so we can be current.



Web Page: The next step is to begin updating the Chapter web page. If anyone would like to assist with this effort or anyone has any information to include or suggested changes please let Jesse know ASAP.

Eventbrite New on the Eventbrite invitation this month are a few FAQs added to help with ordering. If you have any suggestions or other FAQs please let us know.

Forms: New forms continue to be created for use by the Chapter and can be found in the Chapter's Google drive. Any suggestions for new or modified forms are welcome. ❖

CSI MEMBER ANNIVERSARY DATES

March

Eli Howard III	10 years
Daniel Lemieux	10 years
David Hamilton	3 years
Korey Phipps	2 years
Adam McMurtrey	1 year
Ed Weinmann	1 year

New Members

Umakant C. Gajjar February 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.

CERTIFICATION EXAMS

Final registration was February 28. If you have already registered, don't forget about your study opportunities

CDT Boot Camp April 4, 2014 – prepping for the CDT Exam

Construction Document Technologist, (CDT) Exam Administration: **March 31 - April 26, 2014**, in the U.S. & Canada

CDT Practice Exam. Price \$20 for members and non-members. Computer based, 20 multiple choice questions with instantaneous scoring. Find this tool on www.webassessor.com.

CDT Candidate Handbook (PDF) – FREE.

For more information, visit:

<http://www.csinet.org/certification>

FIRST ANNUAL NOVA CSI HORS D'OEUVRES, DESSERTS & AWARDS

Mike Clancy

NOVA CSI Director and E/T/C Co-Chair



Attention all suppliers and manufacturing representatives, we are looking for sponsors for our First Annual NoVA CSI "Hors d'Oeuvres, Desserts & Awards" meeting to be held in June 2014.

As a sponsor of one of the various stations, you will receive a "stocked" specialty hors d'oeuvres or dessert station supplied by Marriott. You may use the remainder of the table to display promotional material and products. This will be a great way to promote your company and products in a festive environment to all the architects and specifiers in attendance. Here are the particulars.

When: Wednesday, June 11, 2014
 Where: Washington Dulles Airport Marriott Hotel
 45020 Aviation Drive, Sterling, VA 20166
 Time: 6:00PM – 9:00PM
 Cost: \$275 per station (includes one admission and additional exhibition staff are \$18 each)

NOTE: The Hors d'Oeuvres/Dessert stations are limited and will be on a first come first serve basis. Sign up on the chapter web site at:

<https://www.eventbrite.com/e/first-annual-hors-doeuvres-dessert-awards-sponsor-sign-up-tickets-10497332805>

For questions, please contact Mike Clancy - NoVA CSI Party Chair at mclancy1@verizon.net

Everyone else, please keep this on your calendar to attend and support the sponsors. ❖

CSI NOVA AND TECHCOMM VE EFFORT UPDATE

Deborah MacPherson,

Chapter Historian and Immediate Past President

The task team for CSI NOVA to assist CSI Technical Committee (TechComm) on a Value Engineering initiative has had 2 meetings and momentum is growing. The first meeting included only the chair Deborah MacPherson, Jesse Oak, and Tech Com liaison Brian Wolf. The next meeting added Mike Montgomery, a couple of the original volunteers have noted they will try to again to get involved.



Due to the low participation and short time frame, participants outside the chapter have also been invited to review and comment on the updated outline and recommendations including: Lamar Henderson with the National Building Information Modeling Standard (NBIMS) Terminology Committee, Dr. Charles Vardeman at Notre Dame who works on Life Cycle Analysis and Ontology Design Patterns, approximately 3 more independent experts are in the works.

We need a full committee of approximately 10 people to meet our goals. Currently, Chapter Secretary Mike Montgomery is dividing the existing outline into parts to be assigned to each individual. We will work on our parts of the outline independently and continue to develop a set of notes and recommendations to summarize at the end of this exercise in June 2014. Brian Wolf is currently integrating previous notes into the outline which he originally authored and presented to Tech Com several months ago.

(Continued on Page 7)

Past Presidents of Northern Virginia CSI

Listed by Fiscal Year Dates

1992 William C. Pegues
 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 FL, no longer a member of CSI



MEMBER SPOTLIGHT

Jason McKay

Company and Position: Isolatek International. I am the Technical Sales Representative covering Delaware, Maryland, District of Columbia and Virginia.

Tell us about your job: We manufacture passive fire protection products, for structural steel buildings.

What part of your job do you enjoy most? I enjoy that I wear two hats in my technical position. I interact with both construction field personal as well as helping architects decipher Underwriters Laboratories designs and code as it relates to Fireproofing. I like that I am able to help teach and provide assistance to those who need it.

What is the funniest/oddest thing that has happened in your professional career? In my first year I had provided three AIA lunch presentations, on my fourth presentation I traveled several hours away from my office and when I arrived I realized I forgot my laptop. I had to draw on a white board and provide shadow puppets. Actually received a standing ovation for my efforts.

What year and why did you join CSI? I joined CSI in 2002. I was new to the construction industry and was looking to learn as much as I could from already experienced professionals.

What is your role in NOVA? I have held several different roles with our NOVA chapter. I originally joined as a board member and the House committee in a effort to help me get to know the members of chapter. I eventually became second vice president and then onto the White House!

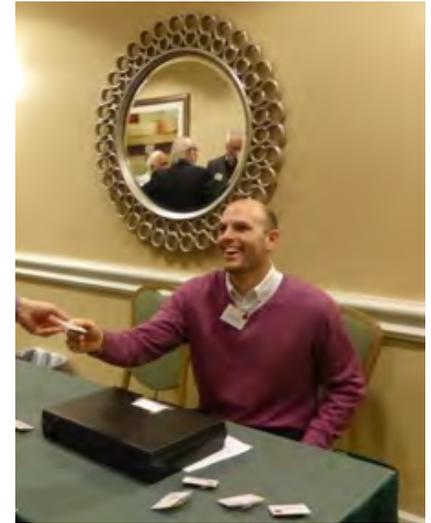
What do you see as the value of CSI membership? Getting to know many of the members and becoming friends. Also, getting to know their roles in the construction industry. Over the course of my membership I also have been able to assist several of my CSI friends find new positions

What would you want someone considering CSI membership to know? In the new age of technology people are becoming less and less engaged in personal interaction. I feel this interaction is a vital part of the construction industry and I strive to keep it alive.

What would people be surprised to know about you? In my former career I was a Physical Education teacher and coach. I love personal interaction with people. To this day I coach a master swim team, geared toward triathletes. I have competed in three full Ironman triathlons and six marathons, including Boston twice.

Most recent movie: The Lego Movie – with my young family.

Favorite vacation spot: Club Med Cancun. ❖



You'll find Jason's friendly face at the registration desk every month.

TECHNICAL NEWS YOU CAN USE

So many materials, so many products. They are being researched and developed every day. It is hard to keep up with them. Here are some interesting state of the art products that may trigger your curiosity and make you feel compelled to pass it along. *(Our readers are encouraged to submit their experiences with these types of products for publication in future issues.)*



"Self-healing Concrete: By devising concrete that controls the way it cracks under stress, the concrete can withstand tensile strain hundreds of times more than ordinary concrete. Beyond its remarkable flexibility, this concrete can then heal itself, as well."

Bendable concrete: We know from experience and traditionally that concrete is a brittle type material that will crack with any bending or buckling. A newly developed concrete mixture that includes fiber-reinforcement will enhance the bend-ability of this product. It is my understanding that the fibers slides with the concrete when bending occurs, providing enough flexibility to prevent breakage. It was reported that this type of concrete is more resistant to cracking and increases its the life expectancy, which means the cost in the long run will be less.



"The translucent concrete, or LitraCon, is the invention of Hungarian architect Aron Loconcz, which deals with concrete plus fiber optics. The fibers are mixed into the concrete, forming a series of "channels" glass, which makes possible the passage of light. This way you can create this effect of translucency on an object far seen only as a solid object and opaque."

Translucent concrete: Concrete is generally a homogeneous material that is known more for their massiveness and stability than for being translucent. New technology offers know translucent concrete, which is a mixture incorporating fiber optical strands. According to the producers of these types of concrete, the optical fibers make up only four percent of the mixture. The end result is that this material still has the ability to support load-bearing walls. ❖



SPECIFIER NOTES FROM FEBRUARY 2014 MEETING PRESENTATION

Large Format Tile

Speaker: Terry O'Hara, Architectural Consultant for Custom Building Products (CBP).

Definition of Large Format Tile (LFT): Large format tile is defined as having a dimension of 15" or greater in any dimension, based on requirements covered in the latest editions of TCNA and ANSI.

The importance of substrates: Flatness shall be 1/8" in 10 feet.

Green Concrete: Use either CBP Spider Web 2 or Schlüter Ditra uncoupling membrane at exterior. Tape edges if waterproofing is required.

Lippage:

LFT has a slight crown in the center of the longest side. When using a staggered joint pattern, limit offset to 1/3 length of tile so that lippage is minimized. (The higher crown in the center should not occur adjacent to the short edge of the tile.) Lippage guidelines are defined by ANSI A108.2, Section 4.3.7.

Keep ceiling lighting at least 24 inches away from large format wall tile to avoid emphasizing lippage.

Backing:

LFT tiles require back buttering. If LFT has mesh backing, and is resinous or epoxy coated, use epoxy mortar in accordance with ANSI A118.3. Backbuttering can be eliminated when a product like CBP Complete Contact Mortar.

Membrane Types:

1. ANSI A118.10 - Liquid or sheet product used for waterproofing.
2. ANSI A118.12 - Anti-fracture type with reinforcing fabric or heavy duty asphaltic peel and stick. Used for crack isolation.
3. ANSI A118.13 - Sound Reduction, usually impact Insulation Class (IIC) rating = 50, per ASTM E2179.
4. TCNA F200 - Uncoupling membrane manufactured by Schlüter, Custom Building Products, and others.

Installation:

1. Thinset: The system typically used.
2. Medium Bed Installation in accordance with 2013 TCNA Handbook and recommended for LFT installations. Mortar thickness can be 3/16" to 3/4" thick non-slumping type. This type levels minor substrate imperfections.
3. Mortar Bed: ANSI A118.4 Latex or Polymer Portland Cement Mortar.
4. New ANSI A118.15 - Improved Modified Dry Set Cement Mortars can be used for improved shear bond (400psi) to impervious tile.

Expansion Joints:

Refer to TCNA EJ171 Series for complete detailed drawings for expansion joints requiring a complete break through the floor assembly and soft joint requirements. Recommendations include 8 to 12 feet on centers for exterior, and 20 to 25 feet on centers for interior tile surfaces.

Grouts: Standard type grouts must be sealed in accordance with ANSI A118.6.

ANSI A118.7 high performance group may be used on grout joints 1/16" to 1/2" wide and, in most cases, should be sealed.

ANSI A118.3 epoxy grouts are most resistant to staining and no sealing is required. Darker colors should be used to minimize visible dirt accumulation.

Urethane/acrylic grouts are becoming popular. ❖



Chapter Board of Directors

President	Luigi Grande..... lgrande@ch2m.com
President-Elect	Jesse Oak..... joak@pbheeryamericas.com
Immediate Past Pres.	Deborah MacPherson .. dmacpherson@cannondesign.com
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Institute

Director	Raymond Gaines gaines5@ntelos.net
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VE Effort Update (continued from page 3)

The purpose of this task team is to advance the proposal outline and deliver a set of recommendations to Tech Com to help them evaluate whether or not a Value Engineering Practice Guide should be produced, or just a set of best practices and white papers. Note that CSI Practice Guides are the new modular approach to what used to be the CSI bible "Project Resource Manual" (PRM). Currently there are three other practice guides – Construction Specifications, Construction Contract, and Project Delivery.

Our next web meeting is scheduled for Monday, March 3, 2014 at 10am to 11am. If you are interested in participating or tackling a section of the existing outline, please contact the chair Deborah MacPherson at dmacpherson@cannondesign.com. Many hands make light work! Thanks. ❖

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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Building Smart for Tomorrow Using Technology Through History

<http://tidewater.csinet.org/Functional-Menu-Category/Upcoming-Events/MARC-2014-Hampton-VA-2.pdf>