



FEBRUARY 2015

Newsletter of the Northern Virginia Chapter Construction Specifications Institute

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DINNER MENU

Dinner Salad

Choice 1: Breast of Chicken

Choice 2: Flank Grilled Steak

Choice 3: Vegetarian Dish

Chef's choice of the following:

- Goat Cheese Ravioli
- Mushroom Ravioli
- Vegetable Lasagna

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 - FEBRUARY 11, 2015

Cold Formed Steel Framing Systems

Description: An overview of CF Steel Floor Framing systems. The uses and methods for the systems and a discussion of alternate framing materials and methods that cold formed framing products can efficiently replace. Basic guidelines on what information should be included in construction documents and resources to assist in the design process.

Learning Objectives: Upon completion, the participant will be able to understand:

- LEED and the recyclability of cold form steel products.
- The uses and methods of cold formed floor systems.
- How to identify alternative floor framing products that cold formed steel can efficiently replace.
- Resources you can use to help with your design effort for cold formed steel floor systems.



Speaker: Anthony Stazzone

Mr. Anthony Stazzone, CSI is the North East Architectural Sales Manager for Marino Ware Industries, Inc. He is currently serving on the board of directors for the CSI New Jersey Chapter, trade show committee member CSI New York Metro Chapter, and member of the CSI Albany, New York Chapter. He is a graduate of Virginia Wesleyan College.

He has affiliations with the Certified Steel Stud Association, Drywall & Interior Systems Association of New Jersey, New Jersey Sub Contractors Association, New York Sub Contractors and the North East Sub Contractors Association



Mr. Stazzone has provided technical assistance from concept through fabrication and Pre-Design Value Engineering on projects in and around the NYC area including B2 Brooklyn in NYC, a 32-Story Modular Building (World's Tallest Modular Building) in NYC, and the Lewis Arts Center for Princeton University. ❖

Register for the meeting at <http://nova.csinet.org> by noon February 6, 2015
Questions? Please send them to csinorthernva@google.com.

Schedule of FY2015 Chapter Meetings and Presentations

September 16, 2014

SNMAAHC Museum tour
Cynthia Heimann/Henry Doyle

October 8, 2014

Form Based Codes
Erik Aulestia

November 12, 2014

Solar Reflectivity Analysis for
Curtainwall Buildings
Vicente Montes

December 10, 2014

Utilization of Radio Frequency
Identification in Projects Today
Patrick Thomas

January 14, 2015 Anniv. Banquet

Metro Silver Line Update
Kevin Volbrecht

★February 11, 2015

Cold Formed Steel Framing
Systems
Anthony Stazzone

March 11, 2015

Building Envelope
Nigel Nestor

April 8, 2015

Value Engineering
Deborah Mc Pherson

May 13, 2015

Laser Leveling Earth Moving
Tom McConnell/Jesse Oak

June 10, 2015 Awards Banquet

2nd Annual Trade Show, Hors
d'Oeuvres, Desserts, Wine &
Awards, *Mike Clancy*

July 2015

Board Transition and Summer
Planning Meeting

Topics subject to change.



FEBRUARY 17, 2015

PRESIDENT'S MESSAGE

Luigi Grande, *NOVA CSI President*

Dear CSI Members,

On January 14, 2015 we had the honor of having a distinguished guest present at our board meeting and program meeting: Margaret Chewing, FCSI, CCS, CCCA, President of the Middle Atlantic Region. She provided us with good constructive criticism and suggestions, and she was impressed with the health of our NOVA CSI chapter.

As I have stated during our past program meeting, starting immediately, an employer that is searching for talented individuals can post their available job positions in our newsletter free of charge to them. This also applies to members that are searching for a specific position for themselves. Your Board believes that this will help our membership to find jobs and continue to take part of our organization if they are fully employed.



Feedback that we received from Margaret is that the Institute also offers a similar proposition for our members. So my curiosity investigated the CSI website and here are some of my findings and other suggestions for your consideration:

- Visit CSI's Career Center. It is imperative that our members are aware of these resources. There, you can post your resume, and/or read job postings across the country for free.
- Become familiar with CSI web site: <http://www.csinet.org>. There is a wealth of information there for our members to enjoy and become more a tune with CSI.
- We are very fortunate that the CSI's membership is comprised of a cross-disciplinary mix of construction professionals. That is good news if you are trying to target an available position. The cross-disciplinary mix covers: owners, facility managers, architects, engineers, specifiers, contractors, sub-contractors, product reps and manufacturers etc. tapping these resources can increase the chance for job hunting.
- Our local NOVA CSI chapter membership is plugged into all phases of construction and design activities in our area. The trick is to spend some quality time with members who know which firms are hiring and could act as a match maker.
- Read present or old editions of our newsletter. Hopefully we will feature job postings in the near future and do not forget our web site at: <http://nova.csinet.org/>.

For the members not present at our regular monthly meeting, Margaret Chewing, President of the Middle Atlantic Region, informed us that she is running for a Director position with CSI National and asked us for consideration of your vote. Stay tune for additional information. ❖

Luigi

PS: CAREER CENTER: Employers with Job Opportunities For Our Job Seeking Members

The Board of Directors has decided to be an intermediary between potential companies that are looking for candidates and some of our members that are struggling with the loss of their jobs. The Chapter will allow employers with available positions, and for members seeking positions, to post their requirements and their qualifications in our newsletter for free. The information will be streamlined in such a way so that contact between these two entities can be established. Long dissertation will not be allowed, maximum 300 characters with spaces.

Here is an example: *Complete professional services of licensed Architect needed in Northern VA area for proposed two-story house of approximately 3500 square footage. For more information, please call: 703-xxx-xxxx and ask for Mr. Jones.*

Please contact Editor at (703)443-2801. ❖

NOVA MEMBER ANNIVERSARY DATES

February 2015

David Lorenzini..... 41 years
Architectural Resources Company

J. Gregg Borchelt 39 years
Retired

Daniel Piper..... 17 years
Architect

Tatiana Gloukhoff 1 year
Architect, CH2M Hill

RENEWAL DATE REMINDERS

February 2015

Gregory Campbell 02/28/2015

David Kilburn..... 02/28/2015

Adam McMurtrey 02/28/2015

Korey Phipps 02/28/2015

Daniel Piper..... 02/28/2015

Ed Weinmann..... 02/28/2015

March 2015

Scott Ewing 03/31/2015

Eli Howard III..... 03/31/2015

Daniel Lemieux..... 03/31/2015

Keith Nelson..... 03/31/2015



EDUCATION, TECHNICAL, AND CERTIFICATION

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



Certificate/Certification Dates:

Final Registration Extended Deadline: March 13, 2015

Extended Exam Dates: March 30, 2015 - May 9, 2015

2015 Dates to Remember:

CSI Academies: San Francisco, CA - *April 16-18, 2015.*

DHI Industry Convention ConNEXTions: Baltimore, MD - April 29 - May 1, 2015.

MARC 2015: Best Western Plus Hotel, Concordville, PA - *April 30-May 3, 2015.*

Construct and Annual CSI Convention: St Louis, MO - *September 30- October 3, 2015.*

Webinars:


Continuing Education: Receive credits for attending 90-minute interactive education sessions. ❖

Visit www.csinet.org to find out more about CSI Educational Opportunities.

ADVERTISING ANNOUNCEMENT

This month inaugurates the first commercial ad, and we are using it as an example of the support we received from Architectural Resources, Inc., Greenbelt, MD (not to be confused with Architectural Resources Company, Leesburg, VA). Thank you, Mike.

www.Architectural-Resources.net
(301) 982-6464
(410) 792-4282
(877) 423-7426



ARCHITECTURAL RESOURCES, INC.
MIKE CLANCY, CSI, CDT

MCLANCY1@VERIZON.NET 7835 BELLE POINT DRIVE
FAX (301) 982-5100 GREENBELT, MARYLAND 20770

Business card size ads will be displayed on a space-available basis and distributed to all members of Mid-Atlantic Region CSI chapters which normally receive monthly issues of Novaspec. This is a potential circulation of 1500. In addition, a company logo will be posted on the Chapter website during the ad subscription period. Rate will be \$200 for one business card size ad displayed in 10 issues. The ads may not necessarily be displayed on consecutive months, which means the ads could run for more than a year. Questions: Contact the Editor at deloren@verizon.net.

Original art must be provided in business card size (3-1/2 inches wide by 2 inches high) for use in the newsletter. Color is acceptable. Also submit a company logo in jpg format for use on the website. Logos will be adjusted to a common size for display. Orders must be sent to deloren@verizon.net along with artwork, check made payable to Northern Virginia Chapter CSI, and contact information. Deadline for each month's issue is the 20th of the previous month.

Contact Mike Clancy to reserve a Table Top display at the next Chapter meeting. ❖

Past Presidents of Northern Virginia CSI

Listed by Fiscal Year Dates

- 1992 William C. Pegues
 - 1993 William C. Pegues
 - 1994 Joseph A. Wintz III*
 - 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
 - 2015 Luigi Grande
- * Senior Lecturer at Clemson University, South Carolina.
 ** Relocated to Illinois
 *** Retired to Florida, no longer a member of CSI



FEBRUARY 16, 2015

IT'S ELECTION TIME FOR CSI



During the month of February you will have an opportunity to choose the persons you want to lead the Middle Atlantic Region and the Institute. Granted, CSI is not a political organization, but the direction determined by the persons you elect will determine the programs and influence the Construction Specifications Institute can offer our design/construction industry.

The CSI Annual Election information found under the Community/CSI Members tag on the Institute website, *CSInet.org*, will allow you to check out the candidates for the Middle Atlantic Region and our candidates for Institute Office from our Region.

Ray Gaines FCSI CCS is running for Institute Secretary, and **Margaret Chewning FCSI CCS** and **Marvin Kemp CSI CCS** are running for Institute Director from the Middle Atlantic Region. Please give Ray your support as Institute Secretary. He has served us well in the past 4 years as Institute Director and in many other CSI leadership positions over the years. There are many initiatives still on the table that need his support. Regarding the Institute Director's position, please give careful consideration to the experience and history of the two candidates when making your choice.

The electronic ballots will be available on *CSInet.org* in February 2015, so as a member in good standing in the Institute, be on the lookout for your notice to make your voice heard with your vote for the Officers of the Institute and the Middle Atlantic Region. ❖

MARGARET CHEWNING, CANDIDATE FOR INSTITUTE DIRECTOR

Candidate Statement: It has been my privilege to serve the Middle Atlantic Region and the Institute during my 35 years as a Member of CSI. During those years, I have frequently served on various Institute Certification committees and as an officer or chairman on my own Chapter Board. I have actively worked with the Student Programs at Chapter, Region and Institute levels; and served two nonconsecutive terms as President of the Tidewater VA Chapter and two consecutive terms as President of the Middle Atlantic Region.



I led my chapter to a membership high of over 100 members, and started our Fundamental Formats Workshop to prepare Specifiers for the CCS exam.

I received my Fellowship in 2005, partly as a result of my work with Student Members in the Middle Atlantic Region and various Student Competitions I led at CSI Academy and Constructs.

During my terms as Middle Atlantic Region President, I have facilitated this change by initiating monthly web conference Region Board Meetings to maintain communication with the leaders of the Middle Atlantic Chapters and to encourage communication among them. I've been instrumental in organizing monthly discussions with Presidents of other Regions to discuss and act upon issues of common interest regarding membership, leadership training, and region finances.

I wish to continue that service to this Region and the Institute in the spirit of FCSI – (Future and Continued Service to the Institute) by serving on the Institute Board, striving to strengthen CSI's position as an information and document organization leader in the design/construction Industry. I want to be part of the solution to the challenges ahead for CSI. Although specifiers are the initial core of CSI, we are not the entire team. It takes a Team to build a building, and it takes a Team to be the Construction Specifications Institute. ❖

Margaret

ROBERT JOHNSON TRIBUTE

Announcement by Joy Davis

Former CSI President Robert Johnson, RA, FCSI, Distinguished Member, CCS, CCCA, of Cedar Crest, NM, died Wednesday evening (January 7, 2015). He is survived by his children, his grandchildren, many other loved ones, and a number of construction professionals who've cited a Master-Format number, prepared for a CSI exam, or gotten good advice from forums, in the booth at The CSI Show, or at a bar, if they were fortunate enough to know him personally. There is at least one CDT in the world who took the exam at his kitchen table.



His son, Curtis Johnson, also of Cedar Crest, invites Bob's "CSI family" to an informal memorial service at French Funerals, 10500 Lomas Blvd. NE, Albuquerque, NM. The service will begin at 2pm on Saturday, January 17, and will be followed by a reception at the Johnson home. There will be an opportunity to share stories and thoughts about Bob, which may include tales of Colorado Bulldog inductions, CSI members tricked into becoming great leaders, co-workers who received calming advice, and boards, committees, and task teams that stayed a little more on track because of his presence.

The service will be attended by his family, which I assume will include his granddaughter, the light of his sunset years. She is as tall, smart, talented, friendly, and as impossible to bully or coerce as one would expect from the next generation of Bob's clan. She is also as much a reminder as the Master-Formats on my shelf that even when we lose a friend, we can see still see his work in the world long after he is gone, and be warmed by the good he has done.

10th Anniversary Banquet Northern Virginia Chapter CSI

Tuesday, January 8, 2002 - Washington National Cathedral



Bob Johnson was Immediate Past President of CSI when the Northern Virginia Chapter was chartered in 1992. He attended the Charter Banquet and sat at the head table. We have no photos of that event.

This photo shows Bob making remarks to the guests in attendance at the Washington National Cathedral at the 10th Anniversary Banquet in 2002.

20th Anniversary Banquet Northern Virginia Chapter CSI

Wednesday, January 11, 2012 - Waterview Conference Center, 24th Floor, Arlington, VA

Bob was not able to attend, but he sent the following remarks that were read during the event:

"Congratulations to the chapter on its 20th anniversary!! I am sorry I can't be there to help you celebrate. You have much to be proud of.

As some of you know, I moved from the Baltimore/DC area to New Mexico about seven years ago to be close to my son and family. I live on a heavily wooded half acre in the mountains just east of Albuquerque at 7,000 feet elevation. It is the best of both worlds as I am only 20 minutes from the city. Because of dialysis treatment, it is difficult for me to travel, so my CSI knowledge is mainly limited to long distance communications, but that doesn't mean that I don't try to keep up.

From what I have seen, you recently have had some very good chapter programs on important current issues. You have also had some chapter members take on some important roles at the Institute level in terms of task team leadership.

I am sure there are many other things you have accomplished that I am not aware of from my distance. You certainly continue to be a vital active chapter even though you are a young chapter in comparison to those around you.

At this point, I would issue you a challenge so that you just don't rest on your laurels. Survey the issues the industry currently faces, both nationally and locally. Examine the resources of the chapter membership in terms of those issues. Which of those issues do you think that the chapter has the member resources to attack for the benefit of the industry? Would it be more beneficial to work with another local CSI chapter or another organization's local chapter on this issue? What can we do as a chapter that would be beneficial to others? I will guarantee that those who participate in this type of effort will feel good about their contributions for the benefit others in the industry.

Again congratulations and best wishes for the next 20 years!!"

Bob Johnson

A Personal Note

CSI President Bob Johnson presented a Fellowship medal and plaque to your editor on June 29, 1991 in San Diego, CA. I admired him greatly, and will never forget him. ❖



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.



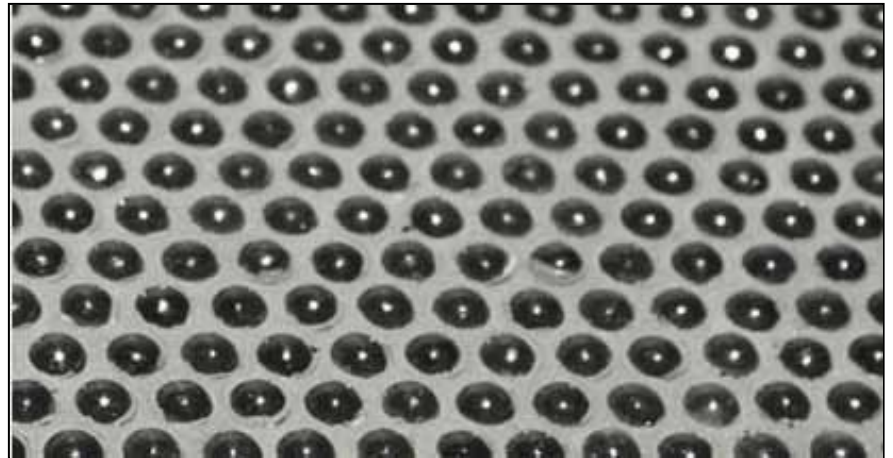
COCONUT-WOOD COMPOSITES

In order to avoid using valuable tropical woods and thus felling rain forests, techniques have been developed in recent years to make the wood from coconut palm plantations suitable for the furniture industry and for flooring. Coconut wood has no annual rings. It is characterized by its spotted structure from which the Dutch manufacturer [kokoshout](#) derived the name cocodots. As the wood is significantly harder at the periphery of the trunk (outer 5 cm) than on the inside, it is primarily this wood that is used for material production. Coconut wood only shrinks and swells minimally and is harder than oak. Coconut wood composites consist of a 1218 mm thick MDF core, to which coconut wood is applied. ❖

BLINGCRETE™

Retro-reflective surfaces are primarily used in fields where safety is an issue, and in fashion. Typical applications include reflective patches for cyclists and security staff. Retro-reflective fabric is also very popular in shoe design. In art, the material was discovered only recently. Reflective concrete, currently being developed under the name [blingcrete](#), is intended to be used for marking edges and hazardous areas (e.g., steps, platforms) and designing integrated building guidance systems and large structural elements. Given its special feel it can also be used in tactile guidance systems for the blind.

On the level of materials science research, blingcrete represents a new genre of materials with its own logic of effect that cannot be described simply in terms of the usual categories of heavy and light or form, construction, and surface. The material, also known as light-reflecting concrete, combines the positive characteristics of concrete (fire safety, solidity, building methods) with those of retroreflection. Retroreflecting surfaces send incoming rays of light (sunlight or artificial light) back precisely in the direction of the source of light. This optical phenomenon is produced by embedding glass microspheres in the substrate material. Blingcrete creates immersive environments by low tech analogue modes. ❖



Black and Tight Grid with 3 mm alkali resistant glass beads.



Blingcrete Color in a variety of vibrant colors, and also in grayscale from white to anthracite.



Blingcrete Crème + Writing shapes are plane, angular, and rounded with graphic symbols.

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

UNOFFICIAL SUMMARY OF JANUARY 2015 BOARD MEETING MINUTES

Call to Order:

- Luigi Grande, President of the NOVA Chapter, called the January 2015 regular meeting of the Board of Directors to order on Wednesday, 14 January 2015 at 5:08 pm at the Washington-Dulles Airport Marriott Hotel.

President's Report and Discussion Items

- **President's Ongoing Initiatives:** Double our membership over the next two years to exceed our original membership of 124.
 - **Committee Succession:** Officers and Committee members are to find a members and groom them to serve as co-chairs ready to help share the committee work and take over the committee when necessary.
 - **CSI Member Issues:** Currently our membership numbers are stagnant. However, this situation is also impacted by technical issues getting a new membership database operational at Institute with no data available since November 2014.
 - The board previously considered as an incentive providing waivers of three meal surcharges for new members.
 - The Membership Committee will proceed to develop the voucher and implement the incentive program waiving the meal surcharges (e.g. credit card fees) for new members for the first three months.
 - Luigi is seeking a volunteer or volunteers to contact other professional organizations for the purpose of cross-advertising through newsletters and websites.
 - Bill Rains volunteered to kick off the initiative. Korey Phipps has also volunteered to assist the membership committee and serve as a resource.
 - Luigi is seeking a volunteer or volunteers to contact employers to sell our membership benefit. Membership provides the opportunity for staff to learn more about specifications and leadership.
 - Luigi is not aware of any requests for newsletter advertising to date. He desires ideas for ways to target product representatives and let them know of available advertising at low cost.
 - The potential circulation audience is 1500.
 - Mike Clancy will take out an ad beginning in the next issue.
 - Luigi is seeking a volunteer to develop a list of regional manufacturer's representatives and send them an invitation to sponsor a table top or a business card sized ad in our newsletter.
 - NOVASpec will include a Position Seekers message for members seeking positions and employers seeking professionals. The item will be available with the February edition and members seeking a new position or career change will need to provide a brief résumé to the Editor.
 - **2018 MARC:** Luigi emphasized the need to start compiling a solid sponsor list for the conference, suggesting that it is a major task requiring early action.
 - The current activity is negotiation of hotel facilities and is ongoing.
 - **June 2015 Dessert Event:** The board agreed that the event will again be the basis for the June meeting.
 - Mike Clancy plans to use the event to emphasize recruiting by extending invitations to CSI non-members to participate. This includes advertising with local firms to encourage staff participation.
 - Mike is also considering a door prize drawing for a lucky attendee. He suggested a pair of Nationals game tickets. This will be further developed.
 - Mike plans to contact potential exhibitors by the end of January. Previous sponsors will be given preference and the number may be increased based on available space and interest.
- **Treasurer:** Pittman provided current account balances: Checking: \$3,686.23; CD: \$5,133.10; Total: \$8,819.33.
 - Diane reported no dues receipts were received from Institute this month, likely due to the database issues that are preventing membership payment capture.
- **Committees**
 - **Programs:** Cynthia Heimann, Chair: Cynthia reported the previously scheduled February presenter made a request to reschedule the presentation.
- **New Business**
 - Alan Geary has accepted a position with Curtain Wall Design and Consulting, Inc. in Purcellville (our November 2014 program presenter).
 - Luigi introduced our Mid-Atlantic Region President, Margaret Chewning, who provided information on the Institute database problem and upcoming elections.
- **Adjournment** - There being no further business to come before the board, President Grande declared the meeting adjourned at 6:08 pm. ❖



Chapter Board of Directors

President	Luigi Grande..... luigig2288@verizon.net
President-Elect	Jesse Oak oakj@pbworld.com
Immediate Past Pres.	Deborah MacPherson .. dmacpherson@cannondesign.com
1st Vice President	John Geniesse jgeniesse@stanleyworks.com
2nd Vice President	Tom McConnell..... tom@construxva.com
Secretary	Mike Montgomery..... mbmonty@embarqmail.com
Treasurer	Diane Pittman..... diane.pittman@cox.com
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Director, 2013-2014	Ken Lyons..... k_lyons@verizon.net
Director, 2014-2015	Cynthia Heimann cheimann@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

Chapter Committees

Awards	Bill Rains bill.rains@sherwin.com
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E.T.C.*	Mike Clancy/John Geniesse, Co-Chairs mclancy1@verizon.net / jgeniesse@stanleyworks.com * (Education/Technical/Certification)
Finance	Diane Pittman..... diane.pittman@cox.com
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House	Jason McKay jmckay@isolatek.com
Membership	Dan Cammer d.cammer@rebarchitects.com
Nominating	Deb MacPherson dmacpherson@cannondesign.com
Programs	Cynthia Heimann cheimann@kgdarchitecture.com

Middle Atlantic Region

President Margaret Chewning mgcccs@spexresources.com

Institute

Director Raymond Gaines..... gaines5@ntelos.net

ONLY THREE MONTHS TO MARC 2015



CSI Mid-Atlantic Region Conference 2015
BEST WESTERN PLUS Concordville Hotel

Save the date—April 30 to May 3, 2015—Visit www.marc2015.org

Editor's Corner

Comments regarding this newsletter are welcome. Original contributed articles are encouraged. Submit them in Word DOC format to deloren@verizon.net. 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.

Our mailing address: Northern Virginia Chapter CSI, PO Box 223415, Chantilly, VA 20153, 703-402-0903, <http://nova.csinet.org/>

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2015 MIDDLE ATLANTIC REGION CONFERENCE

Registration Coming Soon

MARC 2015 Concordville, PA - April 30-May 3

www.marc2015.org



Jerry Yudelson
President
Green Building Initiative
Friday, May 1, 2015 Luncheon

KEYNOTE SPEAKERS



Francis Rabuck
Futurist, visionary Communicator
Technology/Strategy Research Analyst
Saturday, May 2, 2015 Luncheon